

SnapScan

Owner's Guide



Preface

This chapter gives you information about SnapScan™ and about the organization of this Owner's Guide.

Chapter 1 — Preparing the scanner

"Preparing the scanner" shows you how to prepare your SnapScan for installation.

Chapter 2 — Installing the scanner

This chapter shows you how to set up your SnapScan for the Apple® Macintosh® and for PC™.

Chapter 3 — Using the scanner

"Using the scanner" shows you how to place your originals.

Appendix A — Using the transparency option

This appendix instructs you on how to connect the transparency option you may have purchased.

Appendix B — Using the document feeder option

Here you find instructions on how to connect the document feeder option you may have purchased.

Appendix C — Troubleshooting

"Troubleshooting" can be helpful when you come across problems that you are unable to solve.

Appendix D — Technical information

This appendix provides specifications for your SnapScan.

Appendix E — Regulation compliance

It gives you information about safety regulations and electromagnetic interference.



The complete picture.

Trademarks

AGFA and the Agfa rhombus are registered trademarks of Agfa-Gevaert AG.

Apple and Macintosh are registered trademarks of Apple Computer, Incorporated.

AVA-1502P SCSI card is a trademark of Adaptec, Incorporated.

IBM PC, AT, and XT are trademarks of International Business Machines Corporation.

FotoLook, FotoSnap, and SnapScan are trademarks of Agfa-Gevaert NV.

OmniPage Limited Edition is a registered trademark of Caere Corporation.

System 7 is a trademark of Apple Computer, Incorporated.

Windows 95 and Windows 3.x are trademarks of Microsoft Corporation.

Other product or company names are trademarks or registered trademarks of their respective holders.

Copyright © 1996 Agfa-Gevaert N.V.

All rights reserved.

All software and hardware described in this document are subject to change without any notice.

Contents

Preface.....	5
About SnapScan.....	5
Conventions.....	5
1 Preparing the scanner	6
Unpacking the scanner.....	6
Unlocking the scanner.....	7
Relocking the scanner.....	8
Taking a closer look	9
Performing a power-on test.....	11
2 Installing the scanner	12
Hardware requirements.....	12
Environmental requirements.....	13
Precautions	14
Cleaning your scanner.....	14
SCSI devices	15
Installation for the Apple Macintosh.....	16
Choosing a SCSI ID number.....	16
Connecting the scanner.....	18
Testing the connection	21
Installation for the PC.....	22
Which SCSI interface card.....	22
Choosing a SCSI ID number.....	24
Connecting the scanner.....	27
Testing the connection	31
Installation of the software.....	31
3 Using the scanner.....	32
Placing reflective originals.....	32
Placing reflective originals in your document feeder option	32
Placing transparent originals.....	33
Appendix A — Using the transparency option.....	34
About your transparency option	34
Unpacking the transparency option	34
Unlocking the transparency option	35
Connecting the transparency option.....	35

Appendix B — Using the document feeder option	39
About your document feeder option	39
Unpacking the document feeder option	40
Taking a closer look.....	41
Connecting the document feeder option.....	42
Operating the document feeder option	47
Paper loading.....	47
Correcting paper jams	49
Maintaining the document feeder option	51
Cleaning the guide flap	51
Roller cleaning.....	51
Appendix C — Troubleshooting	52
Appendix D — Technical information.....	54
SnapScan specifications	54
Transparency option specifications	55
Document feeder option specifications	56
Appendix E — SnapScan regulation compliance.....	57

Preface

In Preface you find information about SnapScan and about the conventions of this Owner's Guide.

[About SnapScan](#)

[Conventions](#)

About SnapScan

SnapScan is a one pass 8-bit flatbed color scanner with a resolution of 300 x 600 dpi with a fluorescent lamp. It is based on CCD (Charge Coupled Device) scanning technology. SnapScan is a scanner that captures and converts reflective originals (e.g. pictures, text) into electronic data that can be used in computer applications. It offers high-resolution image capturing and is an ideal tool in making presentations come to life.

If you purchased the document feeder option you can scan up to 60 sheets of text fast and without interruption. Some software packages allow you to convert the scanned sheets of text into most of the commercially used text file formats. If you purchased the transparency option, you can scan transparent originals (e.g. slides) as well.

SnapScan supports multiple scanning modes and includes scanner software to get you started right away. With its powerful and easy-to-use scanner driver software, SnapScan gives you easy access to high-quality color scans. The scanner driver software gives you a number of additional features to create special effects or to reproduce even the most difficult originals.

A practical feature is the adjustable document cover: when you put a thicker original (like a book or a magazine) on the reflective glass plate, the document cover adapts itself to its thickness.

You can scan line-art, halftone, gray-scale and color reflective originals up to legal or A4 format. The corresponding bit depths can be either 3 x 8 bit for color, 8 bit for gray-scale originals, or 1 bit for line-art originals. The scanned data are transferred to the workstation through SCSI-2. The workstation can be an Apple Macintosh or PC.

Conventions

The following conventions are used in this guide:

- ❖ Note: a note of this type gives you additional information.
 - Instructions are preceded by a small red square.
1. Numbered steps describe the actions you must take to perform a task.

Chapter 1 — Preparing the scanner

This chapter assists you in preparing your SnapScan for installation.

[Unpacking the scanner](#)

[Unlocking the scanner](#)

[Relocking the scanner](#)

[Taking a closer look](#)

[Performing a power-on test](#)

Unpacking the scanner

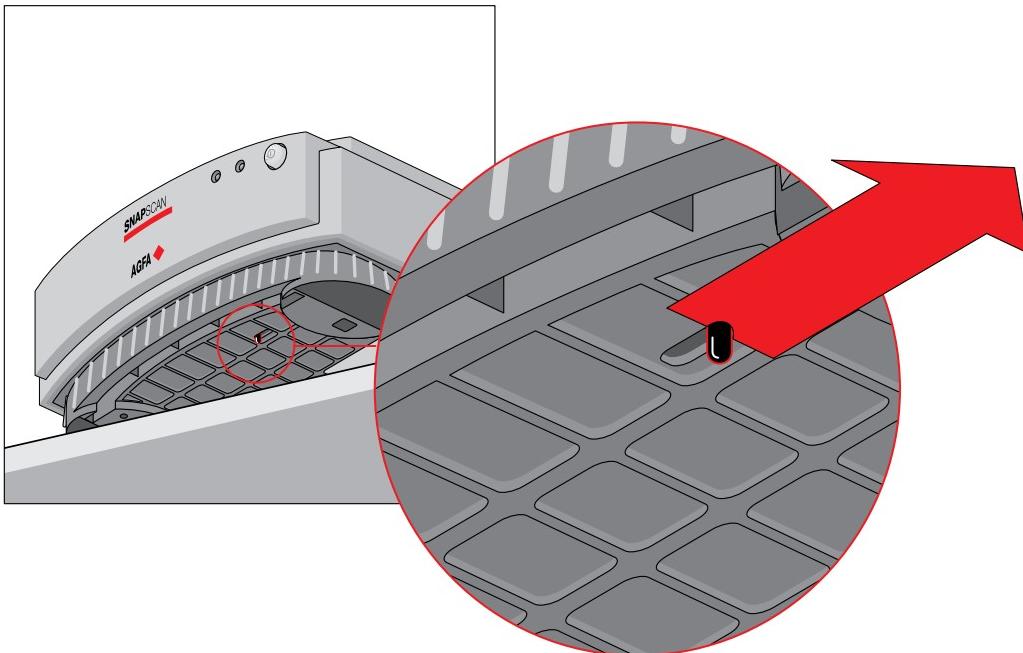
1. Open the packing box and carefully take out all the items.
2. Check each item to make sure that you have everything listed on the box and that there is no visual defect.
If something is missing, contact your dealer.
3. Remove the plastic wrapping and the packing materials from the scanner.
 - ❖ Note: Save the packing materials so that you can repack the scanner to protect it if you have to move it over long distances.
4. Fill out the Warranty and Registration card of your scanner. You will find the product serial number on it. You will have to fill out extra Warranty and Registration cards if you acquired the transparency option or/and the document feeder option as well. You will find the serial numbers of the transparency option and the document feeder option at their rear.
 - ❖ Note: Do not forget to mail the Warranty and Registration card. Only then you can claim your guarantee and get information on new products and upgrades.

Unlocking the scanner

The scanner's optical box contains all optical components and rides back and forth during the scan. A locking slider holds it in place during shipment. You have to unlock the scanner before you power it up .

1. Place the scanner on a horizontal, flat surface and pull it forwards until you can see the locking slider at the base.
2. Slide the locking slider to the right.

Your scanner is unlocked.



3. Move the scanner back on your desktop. Allow a minimum of 10 cm (4 inches) free space around each side of the scanner and a minimum of 15 cm (6 inches) at the rear side of the scanner.

Relocking the scanner

If you need to transport the scanner over long distances, you should first relock it. This will protect the scanner's optical assembly from possible damage.

1. Place the scanner on a horizontal, flat surface and pull it forwards until you can see the locking slider on the underside.

2. Turn on your scanner.

The scanner's optical assembly moves to its home position.

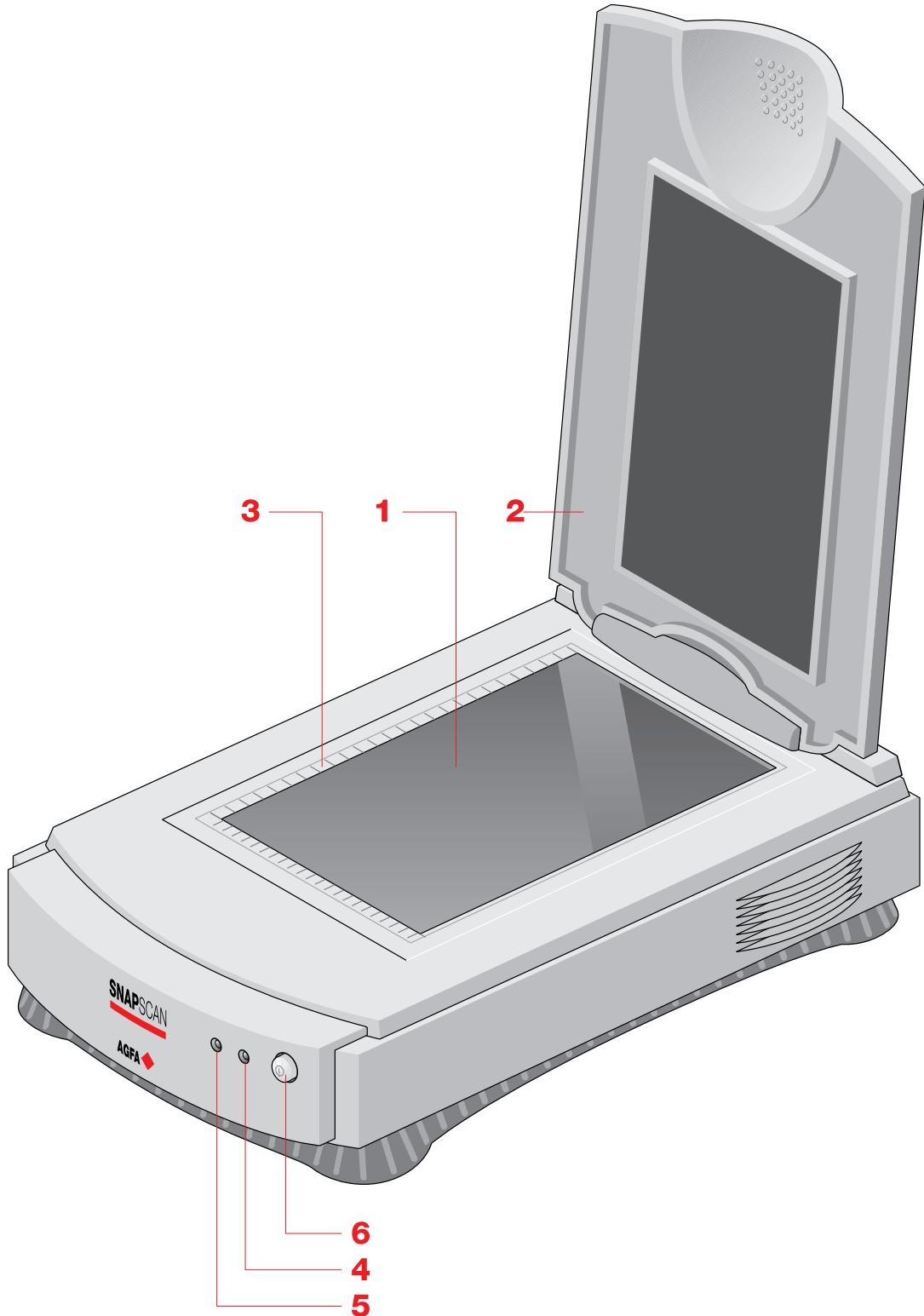
3. When the info indicator (the left green one) stops blinking, slide the locking slider to the left.

Your scanner is locked.

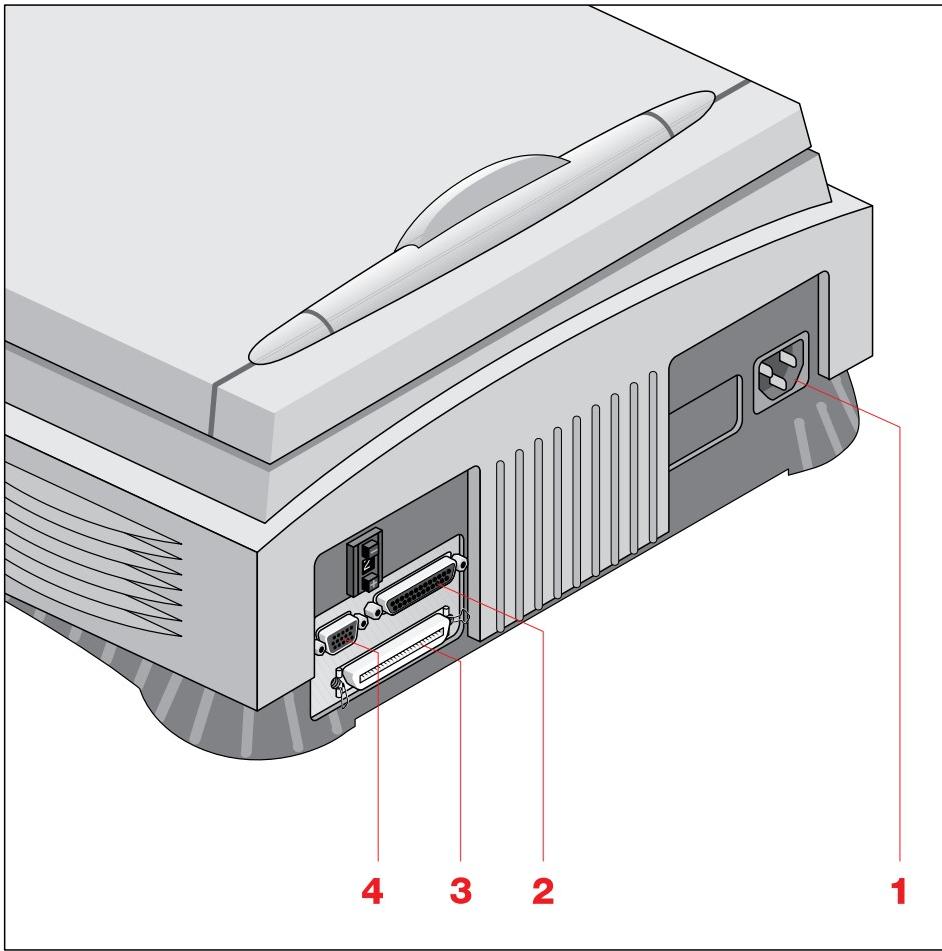
4. Switch off your scanner.

Taking a closer look

Now that you have the scanner out of the box, take a closer look so that you become familiar with its parts. The figures illustrate the locations of the different parts of your SnapScan.



1. glass plate
2. adjustable document cover
3. rulers
4. power indicator (the right green one)
5. info indicator (the left green one)
6. power switch



1. power connector
2. 25-pin SCSI connector
3. 50-pin SCSI connector
4. female 15-pin connector (for connecting the transparency option or the document feeder option)

Performing a power-on test

You are now ready to perform a power-on test to check if the scanner is operating correctly.

1. Check whether you have unlocked the scanner.
2. Connect the power cable to the scanner.

Make sure that you are using the correct power cable for the voltage in your area. Double-check whether the voltage indicated on the back panel of the scanner corresponds with the voltage in your area. If not, call your dealer.

3. Switch on the scanner.

The scanner performs a self-test during which the info indicator blinks slowly. This takes about 15 seconds or less. After the self-test the info indicator remains on.

If a malfunction is detected during the self-test, that is, if the info indicator starts blinking at a higher frequency, refer to [Appendix C, “Troubleshooting”](#).

Chapter 2 — Installing the scanner

This chapter shows you how to set up your SnapScan with your Apple Macintosh or PC.

[Hardware requirements](#)

[Environmental requirements](#)

[Precautions](#)

[Cleaning your scanner](#)

[SCSI devices](#)

[Installation for the Apple Macintosh](#)

[Choosing a SCSI ID number](#)

[Connecting the scanner](#)

[Testing the connection](#)

[Installation for the PC](#)

[Which SCSI interface card](#)

[Choosing a SCSI ID number](#)

[Connecting the scanner](#)

[Testing the connection](#)

[Installation of the software](#)

Hardware requirements

- For the Apple Macintosh:
 - A 68020 processor.
 - A 13 " color monitor.
 - A 24-bit video card for an accurate display of color images.
 - 8 Mb of RAM.
 - A high-capacity disk drive.
 - A CD-ROM drive.
 - System 7.0TM or higher.
 - The amount of disk space available on your Macintosh determines the number and the size of the images you can scan. Make sure you have enough free storage space on your hard disk. You need about two times the size of the image to scan, edit and save it. You need minimum 20 Mb free hard disk space.

- For the PC:
 - A 386 processor (a 486 processor is recommended).
 - A 14 " color monitor.
 - A 16-bit video card for an accurate display of color images.
 - 8 Mb of RAM.
 - FotoLook™ and FotoSnap™ are compatible with all IBM PC's and compatibles capable of running MS Windows 3.1™ or higher, or Windows 95™.
 - A SCSI (Small Computer System Interface) interface card supported by FotoLook for connecting your scanner. You can use the SCSI interface card that is delivered with your SnapScan (See "[Installation for the PC: Which SCSI interface card](#)") or you can use your own SCSI interface card if you have one. In general, FotoLook supports all fully WINASPI compatible cards. Some Adaptec cards require a special SCSI cable. Contact your supplier for the proper cable.

When you don't use the SCSI interface card that is supplied with your SnapScan, you should review your PC's documentation with respect to installing SCSI interface cards. Check the installation and setup guidelines in the documentation that is supplied together with your SCSI interface card.

- A CD-ROM drive.
- The amount of disk space available on your PC determines the number and the size of the images you can scan. Make sure you have enough free storage space on your hard disk. You need about two times the size of the image to scan, edit and save it. You need minimum 30 Mb free hard disk space.

Environmental requirements

- Place the scanner on a horizontal, flat surface.
- To ensure proper ventilation, allow a minimum of 10 cm (4 inches) free space around each side of the scanner and a minimum of 15 cm (6 inches) at the rear side of the scanner.
- Make sure that no vibrations or shocks occur.
- Make sure that the area is free of dust.
- Avoid any contact with water.
- Your SnapScan is designed to perform optimally when the environmental temperature is between 10 °C and 40 °C. Avoid exposure to direct sunlight and heating devices.
- Your SnapScan is designed to perform optimally when the environmental humidity is between 20% and 85%. Avoid environments where humidity fluctuations might occur.
- Check whether the voltage of the power cable corresponds to the voltage in your area. If not, contact your dealer. Avoid environments where voltage fluctuations might occur.

Precautions

For your own safety and that of your equipment, respect conscientiously the environmental requirements (see the above section) and always take the following precautions:

Caution: For the reason of safety, besides the personal maintenance mentioned in this Owner's Guide, don't try to remove any mechanical parts or any electronic devices. If you need service, our dealer and service offices are available to help you.

- Handle your SnapScan and its options with care: the glass plates are fragile. There is no warranty on breaking the glass plates and your dealer is non liable for consequential damages.
- Check frequently whether there is no overheating of the power plug and whether the power plug is pushed all the way into the socket.
- Switch the machine off at the end of your working day or during power failure.
- Disconnect the power plug when you want to clean the scanner housing or glass plate and when the scanner needs service or repair.
- Do not open the scanner housing as it contains high voltage areas and sensitive components. Any curative maintenance should be carried out by your dealer.
- Do not leave originals on the reflective glass plate or on the slide holder frame for excessive periods of time. The warmth of the scanner may cause them to deteriorate.
- To avoid crashes, never use extension cables for SCSI cables.
- For safety reasons, never use extension cables for power cables.

Cleaning your scanner

- Cleaning the glass plate regularly will ensure that dirt or smudges do not reduce the quality of your scanned images.
- Before cleaning, turn off the power to the scanner and unplug the cord.
- Use a damp cloth and a mild detergent to clean the surface of the glass plate and document board. If you use alcohol to clean the glass plate, make sure you do not touch the plastic elements of the scanner.
- Avoid using sprays directly onto the glass plate as this may cause the liquid to penetrate the seams around the glass and contaminate the mirrors and lenses inside the scanner.
- Don't use liquid cleaners or aerosol cleaners.

SCSI devices

SnapScan is a Small Computer System Interface (SCSI) device. It communicates with your computer by using the SCSI-2 standard. The SCSI communication standard allows you to have up to seven peripheral devices connected to your computer.

Before connecting the SCSI devices you should always make sure that your computer and all SCSI devices are switched off. If the computer or any of the devices remains on, you could damage the computer or the SCSI device(s).

A unique SCSI ID number is assigned to each device in the SCSI chain enabling your computer to identify the device it wants to communicate with and the priority of each device.

A SCSI chain requires an electronic component called a 'terminator' which absorbs old signals traveling along the cables and keeps the path open for new signals. The chain should never have more than two terminators, one at each end. It is important to remember that using too many or too few terminators may damage your SCSI devices. Some SCSI devices have built-in terminators and must therefore be placed at the beginning or end of your SCSI chain.

- ❖ Note: Your SnapScan does not have a built-in terminator. If you don't have a terminator, please contact your dealer.
-

Caution: If two SCSI devices have the same ID number, your system will not work properly and you may damage your SCSI devices.

To avoid crashes, never use extension cables for SCSI cables.

Installation for the Apple Macintosh

This section shows you how to set up your SnapScan with your Macintosh computer. You must first choose and set a SCSI ID number, then connect the scanner to your Macintosh, and finally test the connection.

[Choosing a SCSI ID number](#)

[Connecting the scanner](#)

[Testing the connection](#)

Choosing a SCSI ID number

Before you connect your SnapScan to your Macintosh, you have to find out which SCSI ID numbers are already assigned and which numbers are free. To do this, you can use the Macintosh utility 'SCSI ID Checker'. You will find this utility in the FotoLook or FotoSnap folder at the top level of your start-up disk after you installed the software. You will find the instructions for installation of the software on the CD-ROM leaflet.

1. Make sure that your scanner is disconnected.
2. Open the SCSI ID Checker.

A dialog box appears with a list of the SCSI ID numbers that are free in your Macintosh computer.



Your Macintosh always occupies ID 7, its internal hard disk usually occupies ID 0 or ID 1 and CD ROM usually occupies ID 3. If your Macintosh is equipped with 2 SCSI-busses, the button Next Bus allows you to switch busses.

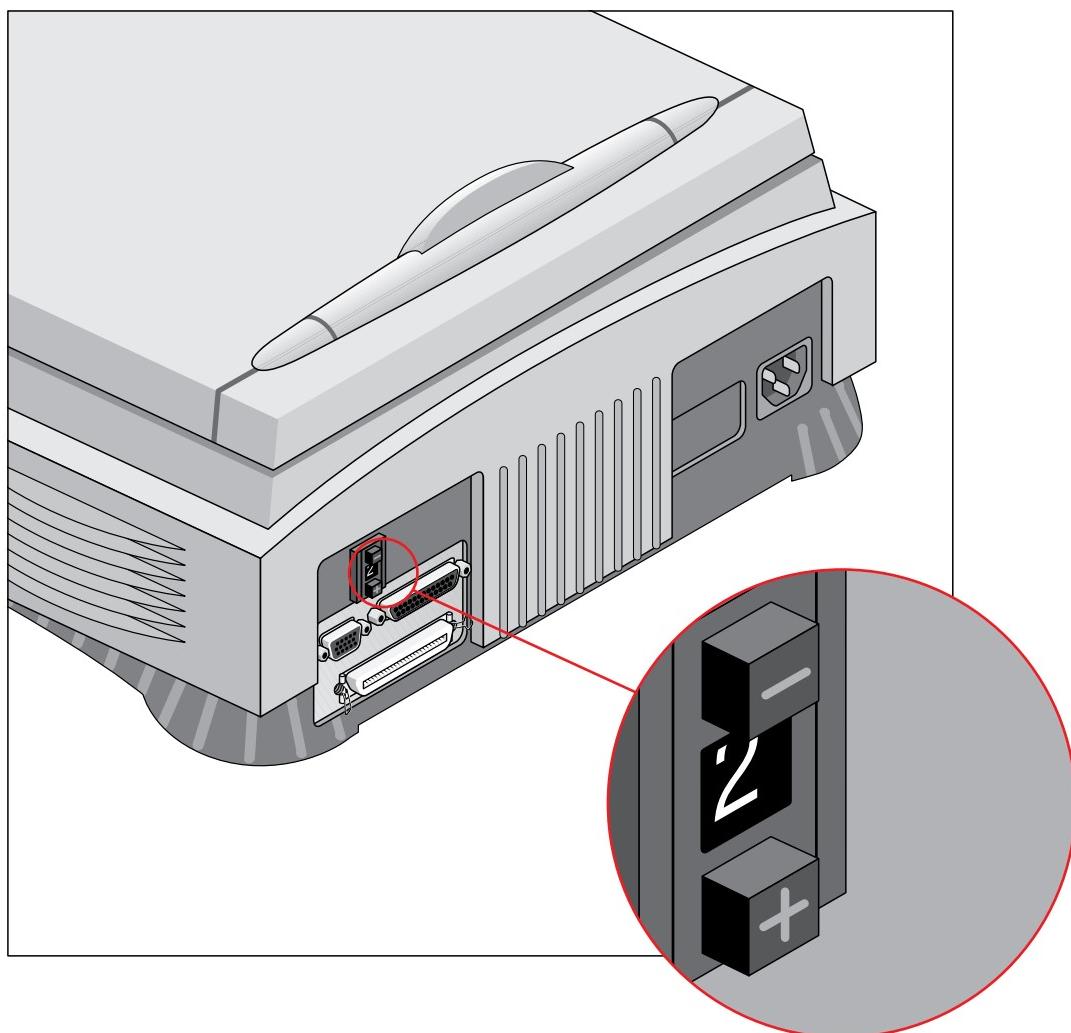
3. Check if SCSI ID number 2 is free.

Your SnapScan is preset to ID 2.

- If SCSI ID number 2 is free, click OK to close the SCSI ID Checker.
- If SCSI ID number 2 is already assigned, you need to set the scanner to a free SCSI ID number.
 1. Make sure your scanner is switched off and is disconnected from your computer.
 2. Decide on an unassigned SCSI ID number.
 3. Push the button above or underneath the SCSI ID number at the rear of the scanner until you see the number you want.

Push the button above the SCSI ID number to decrease the number, push the button underneath the SCSI ID number to increase the number.

4. Click OK to close the SCSI ID Checker.



Connecting the scanner

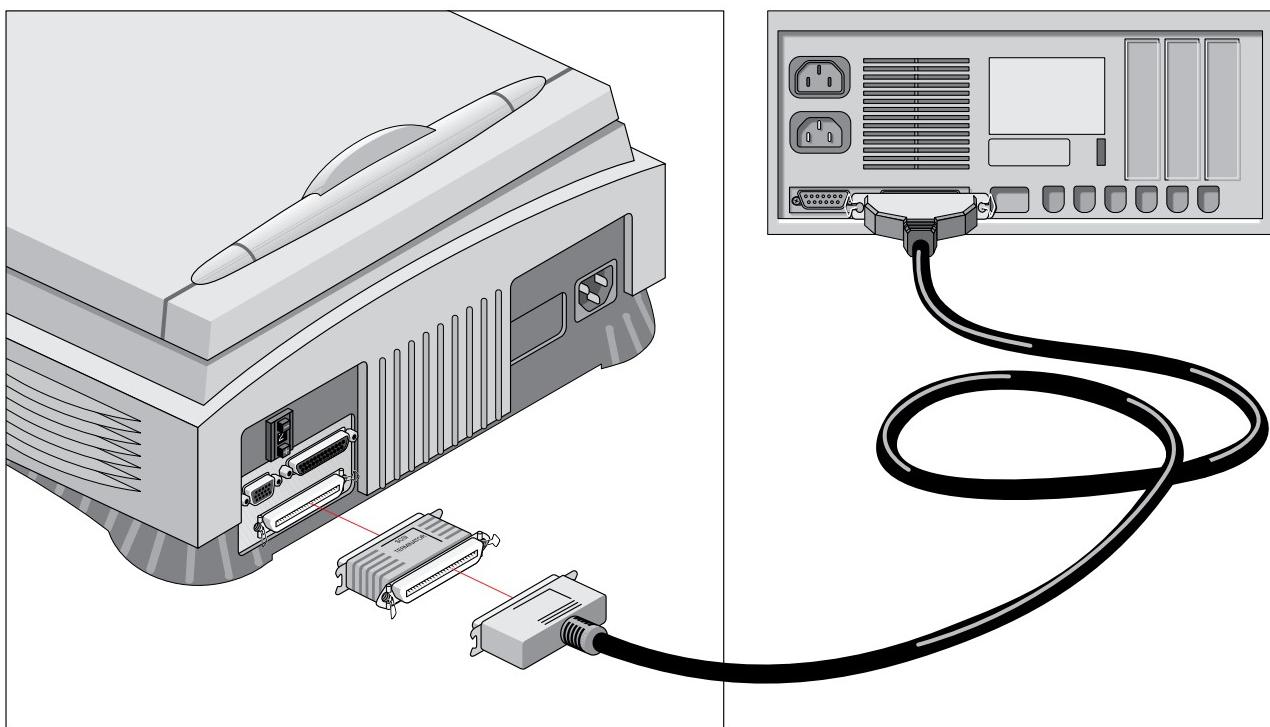
Before you connect the scanner to your Macintosh, make sure that your scanner as well as your Macintosh and everything connected to it are switched off.

A SCSI cable is supplied with your scanner.

Caution: For safety reasons, never use extension cables for power cables.

Always make sure there are no more than two terminators in your SCSI chain, one at the beginning and one at the end. Some SCSI devices have built-in terminators and must therefore be placed at the beginning or end of your SCSI chain. Check the documentation of each of your SCSI devices if you are not sure whether the device has a built-in terminator. The last device of your chain has to be terminated. Your SnapScan has no built-in terminator.

If your SnapScan is the only SCSI device to be connected to your Apple Macintosh:

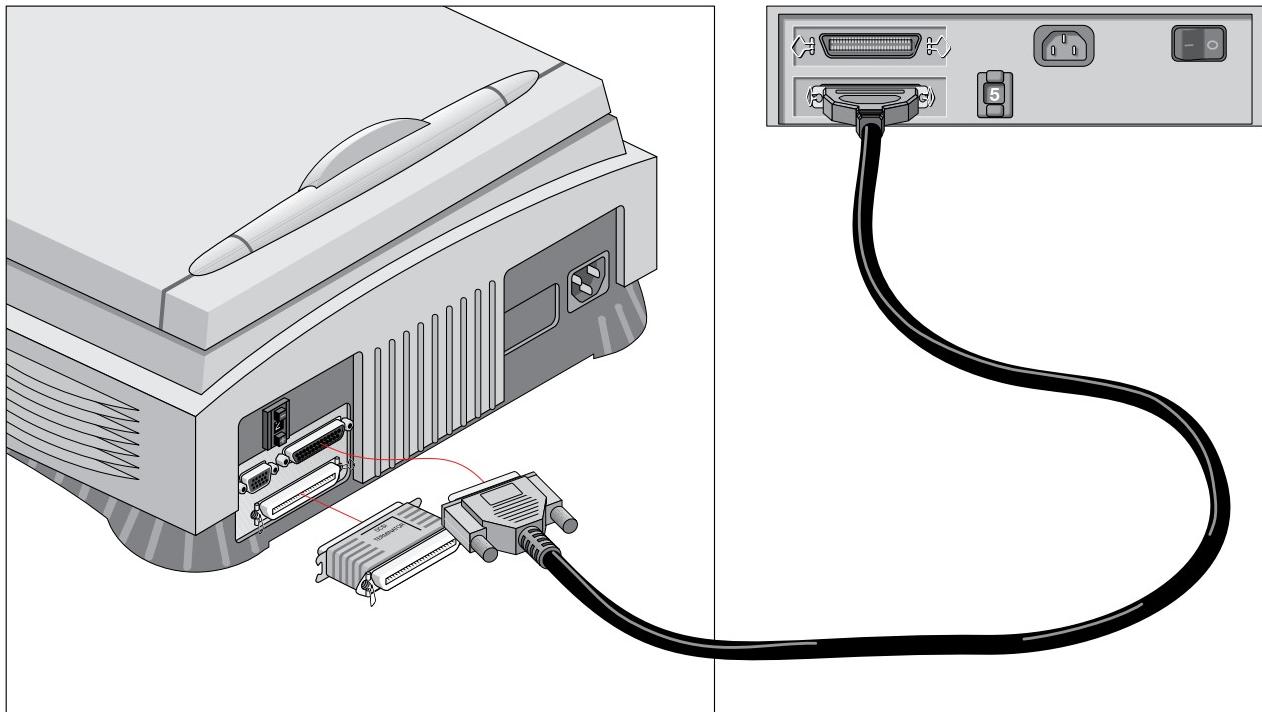


1. Place the terminator on the 50-pin connector of the scanner.
2. Connect the smaller 25-pin end of the SCSI cable to the connector on your Macintosh.
3. Connect the larger 50-pin end of the SCSI cable to the free side of the terminator.
4. Snap the diamond shaped wire clips into the clip brackets to secure the connection.

In case of problems, refer to [Appendix C, "Troubleshooting"](#).

If your SnapScan will be connected to your Apple Macintosh together with other SCSI devices:

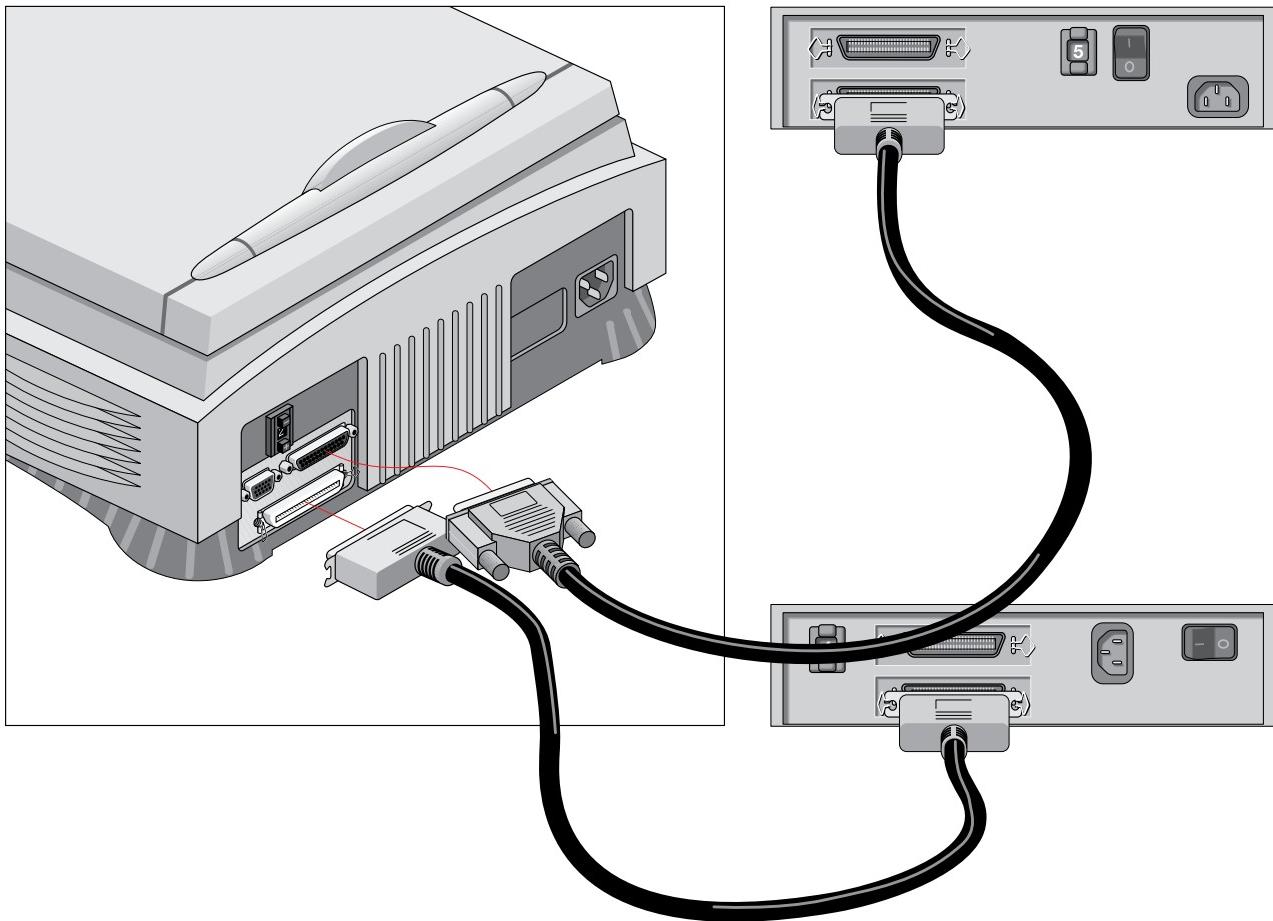
- If you install the scanner at the end of your SCSI chain:



1. Remove the terminator from the last device in the SCSI chain.
2. Connect the 50-pin end of the SCSI cable to the connector that has become available on this device.
3. Place the terminator on the free 50-pin connector of the scanner.
4. Connect the 25-pin end of the SCSI cable to the free connector of the scanner.
5. Snap the diamond shaped wire clips into the clip brackets to secure the connection.

In case of problems, refer to [Appendix C, “Troubleshooting”](#).

- If you install the scanner between two other devices:



1. Disconnect your SCSI cable from one of these two devices.
2. Connect the free end of this SCSI cable to the scanner.
3. Connect the 50-pin end of the SCSI cable (the one supplied with your scanner) to the other adjacent SCSI device.
4. Connect the 25-pin end of the SCSI cable (the one supplied with your scanner) to the scanner.
5. Snap the diamond shaped wire clips into the clip brackets to secure the connection.
6. Make sure that the last device in the chain is terminated.

In case of problems, refer to [Appendix C, "Troubleshooting"](#).

Testing the connection

You are now ready to perform a test to check if the scanner is correctly connected to your Macintosh.

Caution: Check if the scanner is properly unlocked.

1. Connect the power cable to the scanner.

Use the correct power cord for the voltage in your area. SnapScan automatically adjusts to any AC electrical outlet rated from 100V to 240V.

2. Check if the SCSI cable is properly connected.

3. Switch the scanner on.

The scanner performs a self-test during which the info indicator blinks slowly. This takes about 15 seconds or less. After the self-test the info indicator remains on.

If a malfunction is detected during the self-test, that is, if the info indicator starts blinking at a higher frequency, refer to [Appendix C, “Troubleshooting”](#).

4. Switch on any other SCSI devices you may have attached, and wait for them to start up.

5. Switch on your Macintosh.

As it starts up, your Macintosh performs a series of tests to verify the correct system configuration.

6. Open the SCSI ID checker.

7. Verify whether the Macintosh sees the scanner at its proper SCSI ID.

In case of problems, refer to [Appendix C, “Troubleshooting”](#).

8. Close the SCSI ID checker.

Installation for the PC

This section shows you how to set up your SnapScan with your PC. You can find information on which SCSI interface card to use, instructions for connecting the scanner to your PC and instructions for testing the connection.

[Which SCSI interface card](#)

[Choosing a SCSI ID number](#)

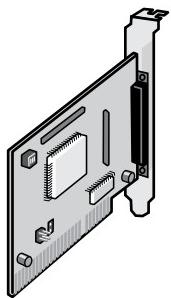
[Connecting the scanner](#)

[Testing the connection](#)

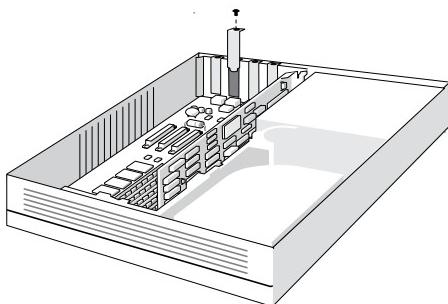
Which SCSI interface card

SnapScan requires a SCSI interface card (for example, the Adaptec card AVA 1502P™ that is supplied with the scanner) to work with your PC, PC-AT™, 386, 486, or compatible computer.

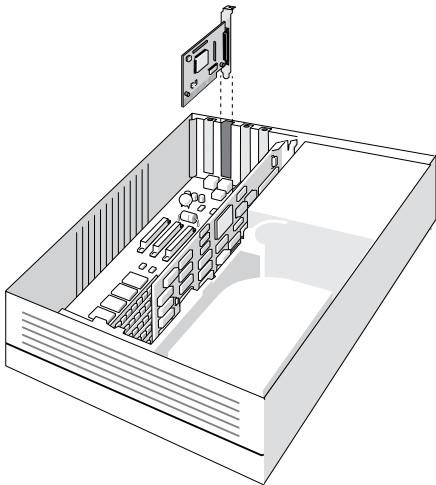
- If your PC does not have such a card, you have to install the SCSI interface card that is supplied with your scanner:



1. Remove the chassis cover of your computer.
2. Locate an unused 16-bit ISA expansion slot.
3. Remove the corresponding slot cover from the back of the computer chassis. Keep the screw that held the cover in place.



4. Align the AVA-1502P SCSI card with the ISA slot, then push it into the slot.



5. Attach the bracket of the SCSI card to the computer chassis, using the screw from the expansion slot that you removed.
6. Attach the 25-pin connector on the SCSI cable to the connector on your SCSI card.
7. Replace the computer chassis cover, following the instructions in your computer documentation.
8. Install the software for the AVA-1502 SCSI card.
 - Windows 95: Follow the instructions Windows 95 gives you.
 - Windows 3.x: You find this software on the AGFA scanner CD-ROM.
 1. Put the AGFA scanner CD-ROM in your CD-ROM drive.
 2. Install the AVA-1502P software. Refer to the AGFA scanner CD-ROM.

For additional information about the installation of the SCSI card, please refer to the documentation on the AGFA scanner CD-ROM and to your PC manual.

- If your PC already has a SCSI interface card, you can use this one.
The scanner software supplied with SnapScan supports ASPI-compatible SCSI interface cards.
- ❖ Note: Please check the following documentation:
 - The Readme file on the PC scanner driver software CD-ROM for up-to-date information.
 - The documentation supplied with your SCSI interface card. This will tell you how to install the card.
 - If you are using third party software, check the documentation supplied with that software for the SCSI interface cards supported.

Choosing a SCSI ID number

If you installed the AVA 1502-P card:

Before you connect your SnapScan to your PC, you have to find out which SCSI ID numbers are already assigned and which numbers are free.

1. Open the Adaptec SCSI interrogator.

or

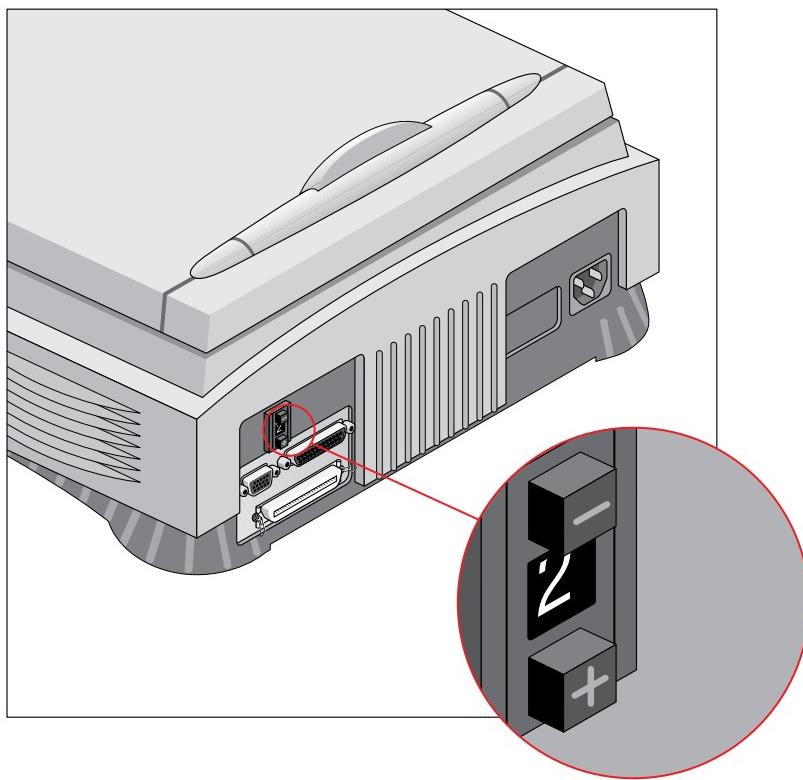
Check at the rear of your devices if SCSI ID number 2 is free.

Your SnapScan is preset to ID 2.

2. If SCSI ID number 2 is not free, you need to set the scanner to a free SCSI ID number:

1. Make sure your scanner is switched off and is disconnected from your computer.
2. Decide on an unassigned SCSI ID number.
3. Push the button above or underneath the SCSI ID number at the rear of the scanner until you see the number you want.

Push the button above the SCSI ID number to decrease the number, push the button underneath the SCSI ID number to increase the number.



If you are using another card:

1. Open the Adaptec SCSI interrogator.

A dialog box appears with a list of the SCSI ID numbers that are free in your PC.

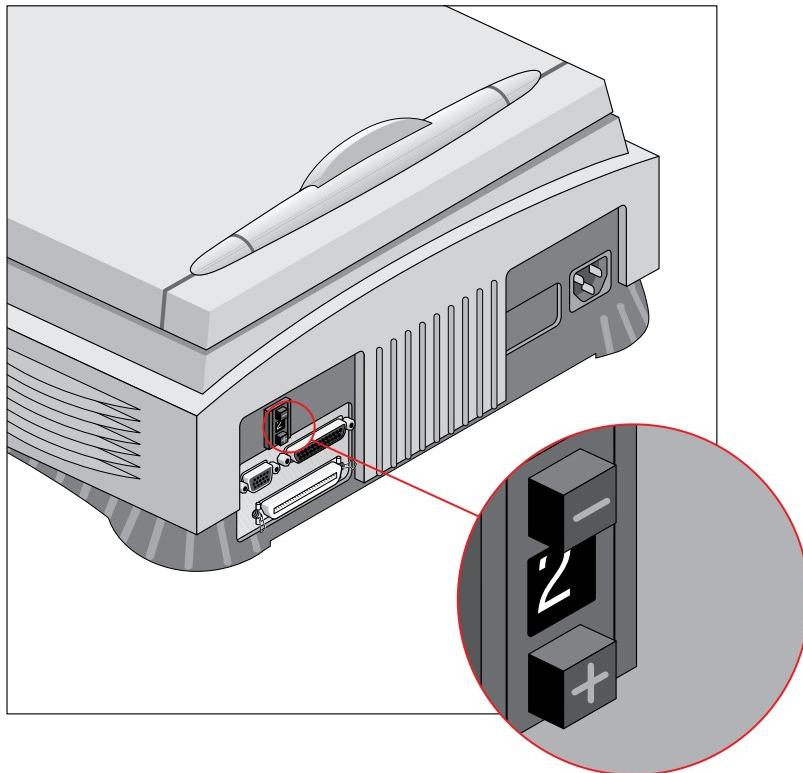
Your PC always occupies ID 7. If your PC is equipped with 2 SCSI-busses, the Adapter menu allows you to switch busses.

2. Check if SCSI ID number 2 is free.

Your SnapScan is preset to ID 2.

- If SCSI ID number 2 is free, close the Adaptec SCSI interrogator.
- If SCSI ID number 2 is already assigned, you need to set the scanner to a free SCSI ID number:
 1. Make sure your scanner is switched off and is disconnected from your computer.
 2. Decide on an unassigned SCSI ID number.
 3. Push the button above or underneath the SCSI ID number at the rear of the scanner until you see the number you want.
Push the button above the SCSI ID number to decrease the number, push the button underneath the SCSI ID number to increase the number.

4. Close the Adaptec SCSI interrogator.



Connecting the scanner

Before you connect the scanner to your PC, make sure that your scanner as well as your PC and everything connected to it are switched off.

A SCSI cable is supplied with your scanner.

Caution: For safety reasons, never use extension cables for power cables.

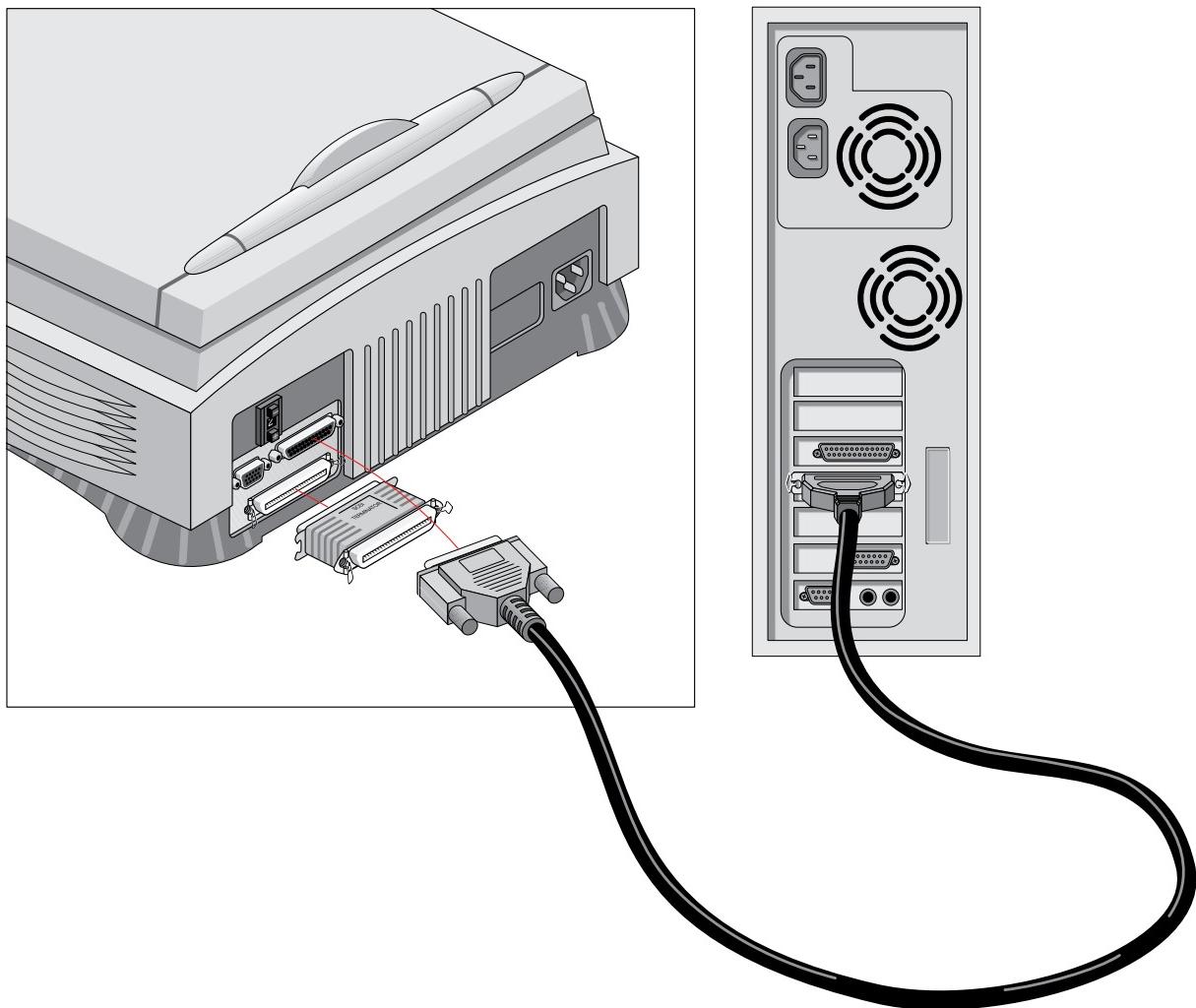
Always make sure there are no more than two terminators in your SCSI chain, one at the beginning and one at the end. Some SCSI devices have built-in terminators and must therefore be placed at the beginning or end of your SCSI chain. Please check the documentation of each of your SCSI devices if you are not sure whether the device has a built-in terminator. The last device in your chain has to be terminated. Your SnapScan has no built-in terminator.

Never try to connect the scanner to the serial or parallel port of your PC: you might seriously damage your equipment if you do.

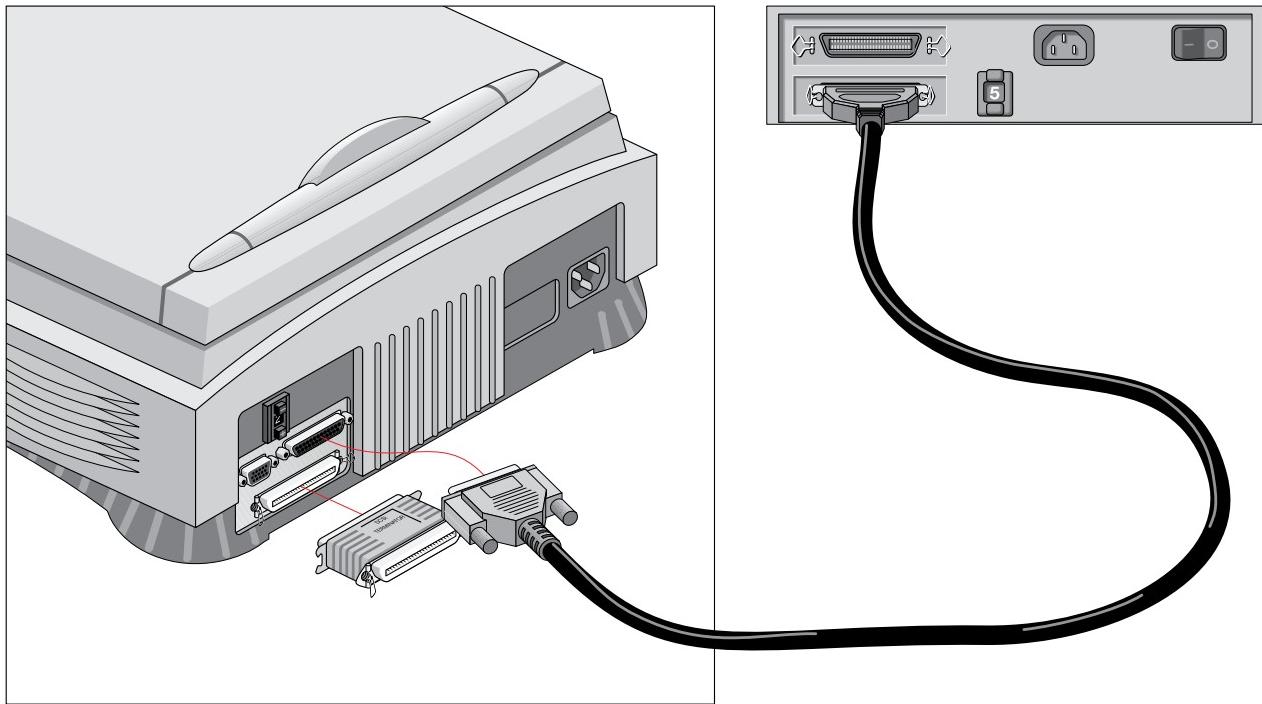
- If your PC has a high density SCSI connector, you might need to buy a special cable from your dealer.

- If your PC has a 25-pin connector, follow the instructions of "[Installation for the Apple Macintosh': 'Connecting the scanner'](#)".

- If your PC has a 50-pin connector and your SnapScan is the only SCSI device to be connected to your PC:
 1. Connect the larger 50-pin end of the SCSI cable to the connector at the rear of your PC.
Use the SCSI cable supplied with the scanner.
 2. Place the terminator at the 50-pin connector of the scanner and snap the diamond shaped wire clips into the clip brackets to secure the connection.
 3. Connect the smaller 25-pin end of the SCSI cable to the free connector of the scanner.



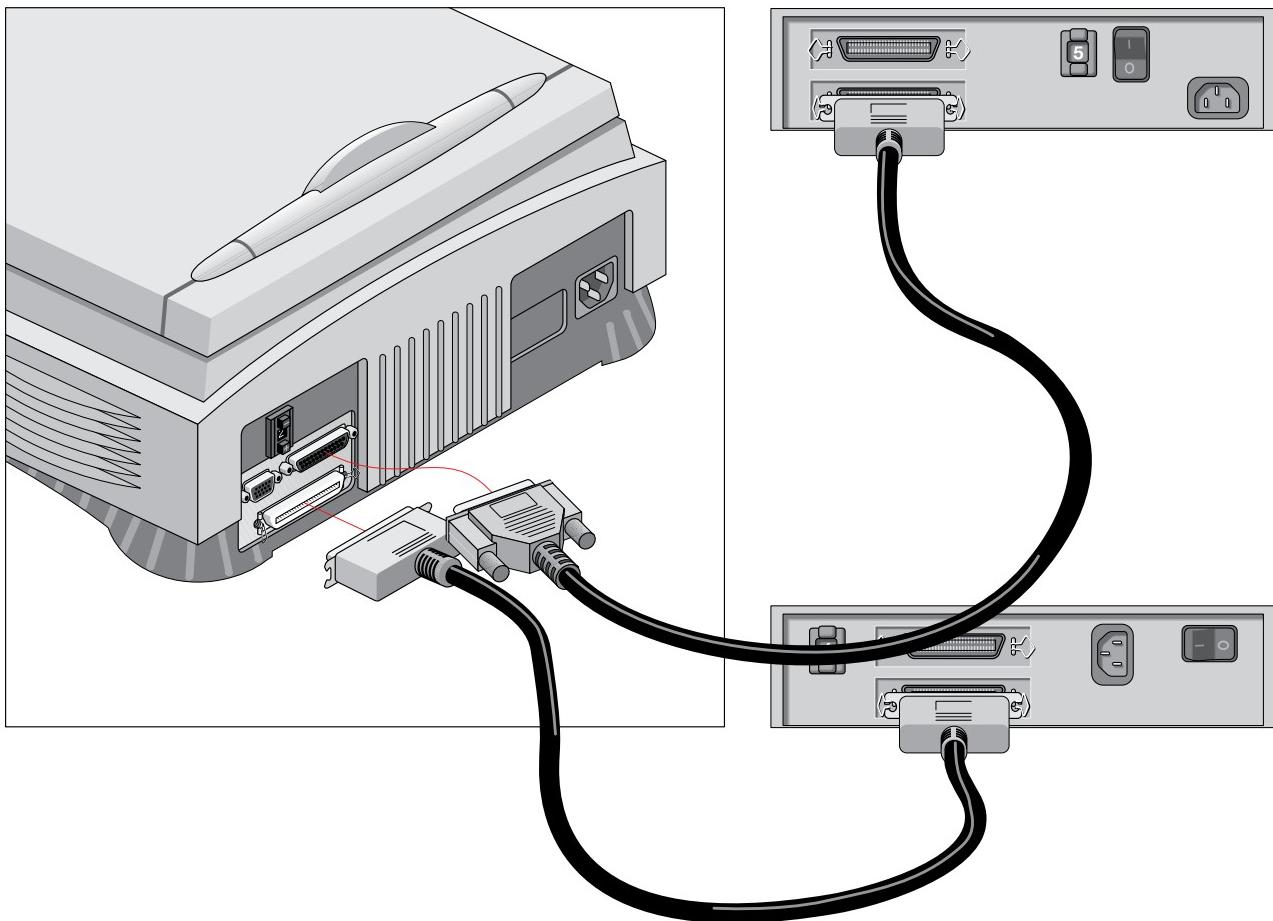
- If your PC has a 50-pin connector and your SnapScan will be connected to your PC together with other SCSI devices:
- If you install the scanner at the end of your SCSI chain:



1. Connect the 50-pin end of the SCSI cable to the connector at the rear of your device.
2. Place the terminator on the 50-pin connector of the scanner. Snap the diamond shaped wire clips into the clip brackets to secure the connection.
3. Connect the 25-pin end of the cable to the scanner.

- If you install the scanner between two other devices:

Caution: In this configuration you are not allowed to put the terminator on the scanner.



1. Disconnect the two devices between which you want to install the scanner.
2. Connect the 50-pin end of the SCSI cable to the connector at the rear of the adjacent device.
3. Connect the 25-pin end of the cable to the scanner's 25-pin connector.
4. Connect the scanner to the next device in the SCSI chain.

In case of problems, refer to [Appendix C, "Troubleshooting"](#).

Testing the connection

You are now ready to perform a test to check if the scanner is correctly connected to your PC.

Caution: Check if the scanner is properly unlocked.

1. Connect the power cable to the scanner.

Use the correct power cord for the voltage in your area. SnapScan automatically adjusts to any AC electrical outlet rated from 100V to 240V.

2. Check if the SCSI cable is properly connected.

3. Switch the scanner on.

The scanner performs a self-test during which the info indicator blinks slowly. This takes about 15 seconds or less. After the self-test the info indicator remains on.

If a malfunction is detected during the self-test, that is, if the info indicator starts blinking at a higher frequency, refer to [Appendix C, "Troubleshooting"](#).

4. Switch on any other SCSI devices you may have attached, and wait for them to start up.

5. Switch on your PC.

6. Check in the Adaptec SCSI interrogator if the SCSI interface card sees the scanner at the right SCSI ID.

Installation of the software

1. Install the scanning software from the AGFA scanner CD-ROM. Follow the instructions on the CD-ROM leaflet.
2. Install the image editing software.

Chapter 3 — Using the scanner

This chapter tells you how to place transparent and reflective originals on your scanner.

[Placing reflective originals](#)

[Placing reflective originals in your document feeder option](#)

[Placing transparent originals](#)

Placing reflective originals

You can place a reflective original directly on the scanner's glass plate.

The following steps explain how to position your reflective original on your scanner.

1. Raise the document cover of the scanner.

If you have acquired and installed a transparency option (Refer to [Appendix A , "Using the transparency option"](#)) or a document feeder option ([Refer to Appendix B , "Using the document feeder option"](#)), you do not have to remove it for scanning reflective originals: just raise the transparency option or the document feeder option.

2. Place the original on the glass plate with its image side down and with its top side against the middle of the front ruler.

Optical performance of a CCD scanner is always best near the middle of the glass plate.

3. Lower the document cover of the scanner.

The adjustable document cover makes it possible to scan from books and magazines: when you put a thicker original on the reflective glass plate, the document cover adapts itself to its thickness.

You are ready to scan now.

Placing reflective originals in your document feeder option

The purpose of the document feeder option is to scan up to 60 text pages fast and without interruption. Software like OmniPage Limited Edition® or other OCR (Optical Character Recognition) software makes it possible to convert them into most of the commercially used text file formats.

You use your document feeder option as follows: you put a little pile of text pages in your document feeder option with the text side up.

Placing transparent originals

Caution: Always use the template for scanning transparent originals. Make sure that the [calibration slit](#) is not covered by the transparent original and that it is clean.

You need the transparency option to scan transparent originals. You use it as follows:

1. Install the transparency option: refer to [Appendix A, “Using the transparency option”](#)
2. Raise the transparency option.
3. Place the original that you want to scan on the glass plate with the emulsion down, that is, with the matte side down, and with its top side towards the calibration slit. This position guarantees the best quality. Make sure that the calibration slit in the frame is at the front side (standing in front of the scanner) and that it is free. To see where the calibration slit is situated, you have to use the template that is delivered with the transparency option.

If you place more than one slide on the glass plate (for batch scanning), position them as close to the center line as possible to optimize quality.

4. Lower the transparency option.

You are ready to scan now.

Appendix A — Using the transparency option

This appendix describes the procedure for installing the transparency option if you have bought one for your SnapScan.

[About your transparency option](#)

[Unpacking the transparency option](#)

[Unlocking the transparency option](#)

[Connecting the transparency option](#)

About your transparency option

The transparency option is an optional item that allows you to scan transparencies.

Unpacking the transparency option

The first thing to do is to make sure you have everything you are supposed to.

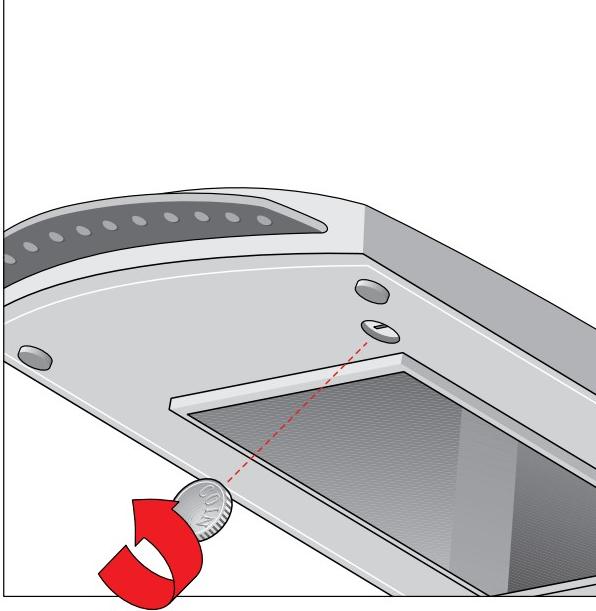
1. Open the packing box and take out all the items.
2. Check each item to make sure that you have everything and that there is no visual defect.
If something is missing, contact your dealer.
3. Remove the plastic wrapping and the packing materials from the transparency option.
- ❖ Note: Save the packing materials so that you can repack the transparency option to protect it if you have to move it over long distances.
4. Fill out the Warranty and Registration card. You will find the product serial number on the identity label on the rear of your transparency option.
- ❖ Note: Do not forget to mail the Warranty and Registration card(s). Only then you can claim your guarantee and get information on new products and upgrades.

Unlocking the transparency option

Unlock the transparency option before connecting it to the scanner.

1. Locate the locking screw at the base of the transparency option.
2. Turn the screw counterclockwise.

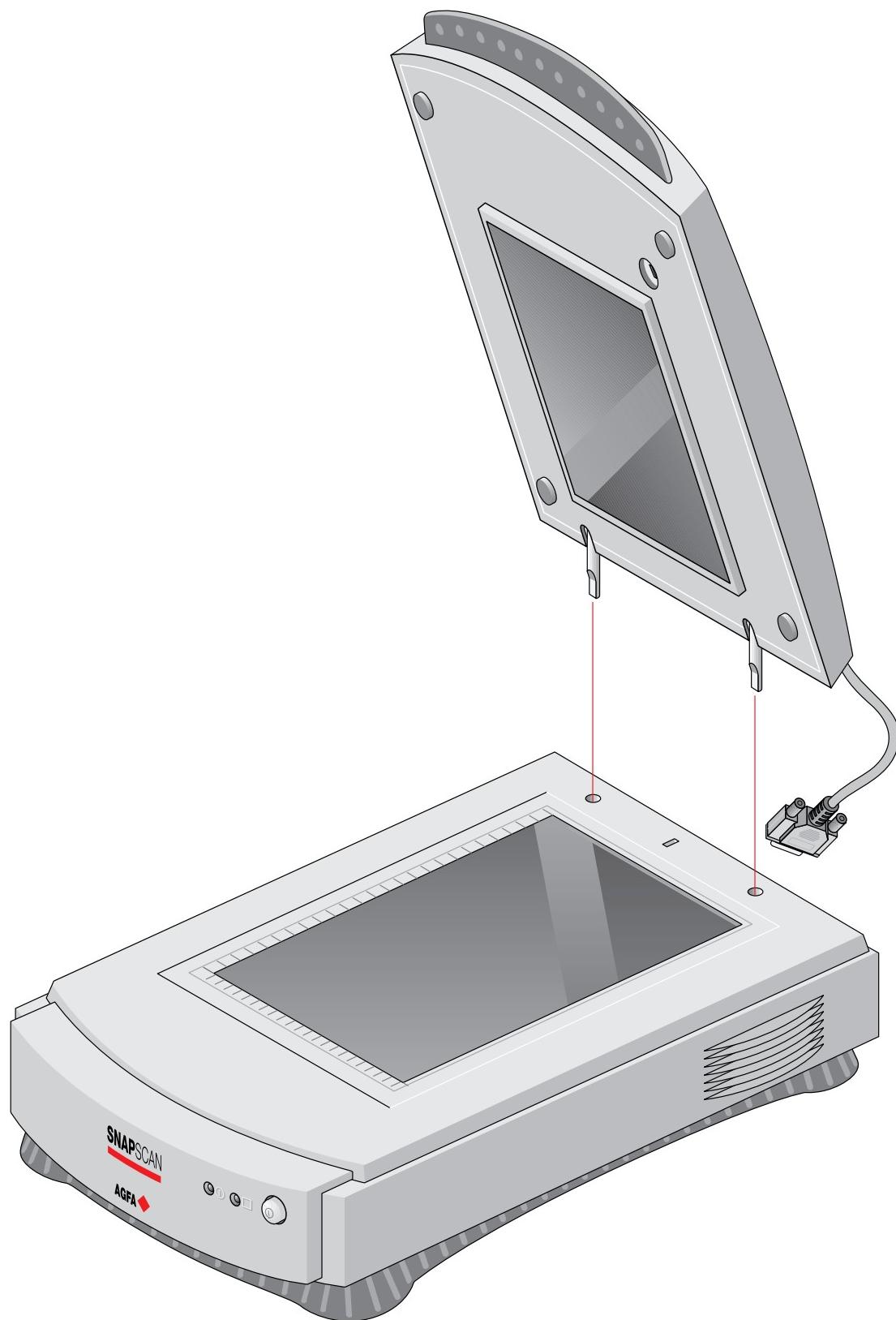
Your transparency option is unlocked.



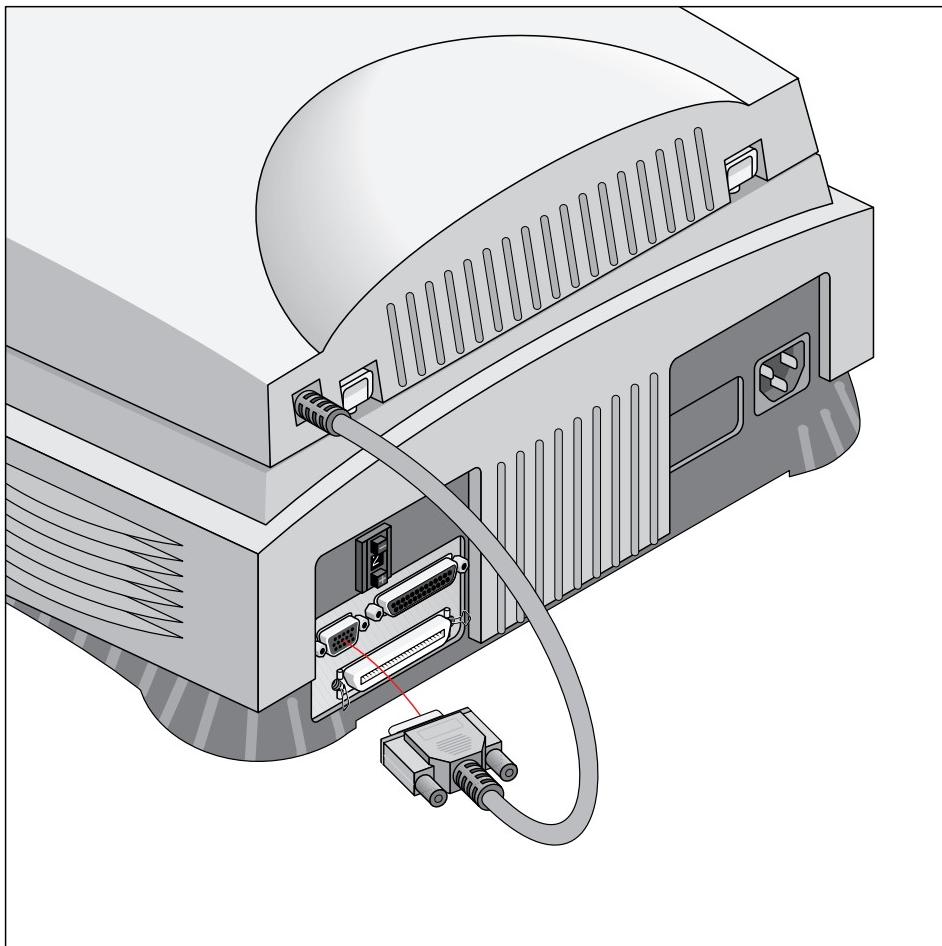
Connecting the transparency option

1. Check if your scanner and your transparency option are properly unlocked.
2. Turn off your scanner.
3. Turn off your computer.
4. If the document feeder option is installed, disconnect it from your scanner.

5. Place the transparency option as shown in the figure: insert the guide pins into the holes originally used by the scanner's document cover.



6. Lower the transparency option.
7. Connect the male 15-pin connector of the transparency option to the female 15-pin connector at the rear of the scanner. Secure the connector by tightening its retaining screws.



8. Place the template that came with your transparency option on the glass plate.

The transparency option is ready for use.

Caution: Make sure that the calibration slit faces the front of the scanner and is not covered by the transparent originals.



9. Turn your scanner on.

10. Turn your computer on.

Appendix B — Using the document feeder option

This appendix gives information on the document feeder option and describes how to install, operate and maintain it.

[About your document feeder option](#)

[Unpacking the document feeder option](#)

[Taking a closer look](#)

[Connecting the document feeder option](#)

[Operating the document feeder option](#)

[Paper loading](#)

[Correcting paper jams](#)

[Maintaining the document feeder option](#)

[Cleaning and replacing the guide flap](#)

[Roller cleaning](#)

About your document feeder option

The ADF Automatic Document Feeder is a companion sheet feeder for your SnapScan. It allows automatic scanning of up to 60 sheets. The dimension of the document can be as large as 211 mm x 297 mm (8.5 " x 11.7 "). Sheets to be scanned are fed from a stack in the ADF's input tray, guided past the scanner's image sensor, and placed in the feeder's output tray.

The ADF mounts onto the scanner in place of a document cover, using the original document guide holes of your scanner. The feeder is preloaded by spring plungers so that it can be lowered into position for auto-feed or lifted off to allow use of the flatbed.

The ADF is a must for high-volume document processing with your SnapScan. It increases operating convenience and efficiency in multi-page scanning and OCR (Optical Character Recognition) application.

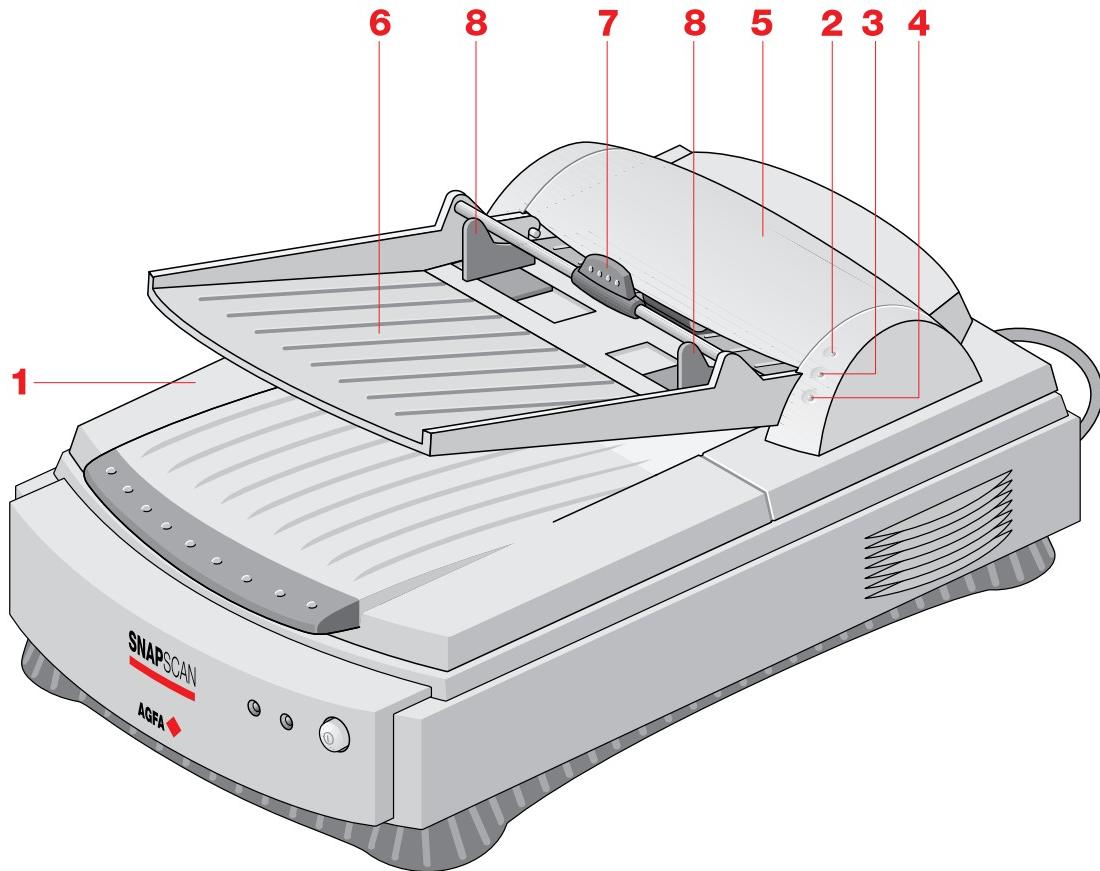
Unpacking the document feeder option

The ADF is delivered in assembled form, ready to be mounted onto the scanner. The first thing to do is to make sure you have everything you are supposed to.

1. Open the packing box and take out all the items.
The ADF package includes the ADF and the Warranty Card.
 2. Check each item to make sure that you have everything and that there is no visual defect.
If something is missing, contact your dealer.
 3. Remove the plastic wrapping and the packing materials from the document feeder option.
- ❖ Note: Save the packing materials so that you can repack the document feeder option to protect it if you have to move it over long distances.
4. Fill out the Warranty card. You will find the product serial number on the identity label at the rear of your document feeder option.
- ❖ Note: Do not forget to mail the Warranty card. Only then you can claim your guarantee and get information on new products and upgrades.

Taking a closer look

Now that you have the ADF out of the box, take a closer look so that you become familiar with its parts.

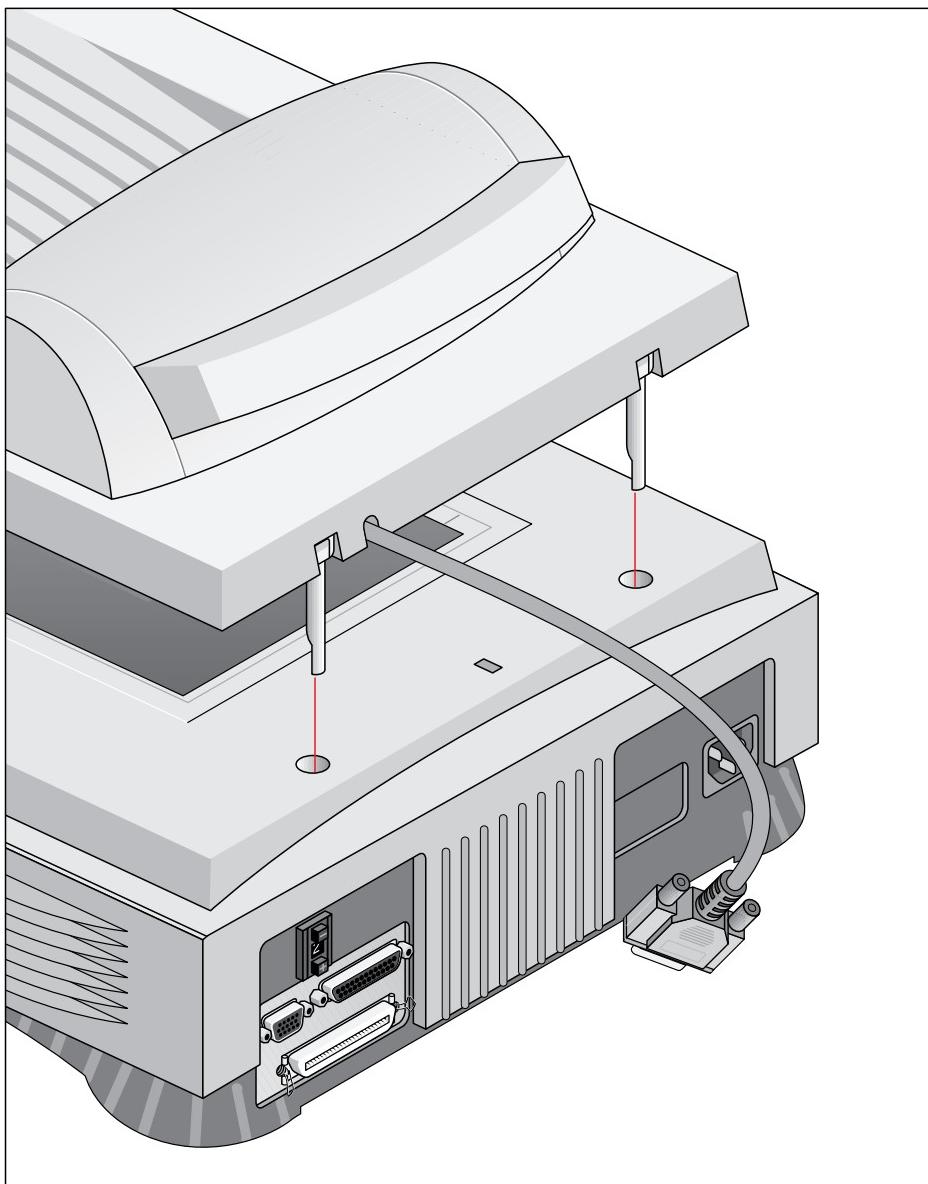


1. transportation module
2. power indicator (green)
3. paper out indicator (orange)
4. jam indicator (orange)
5. cover of the transportation module
6. paper tray
7. rotating arm
8. guide arms

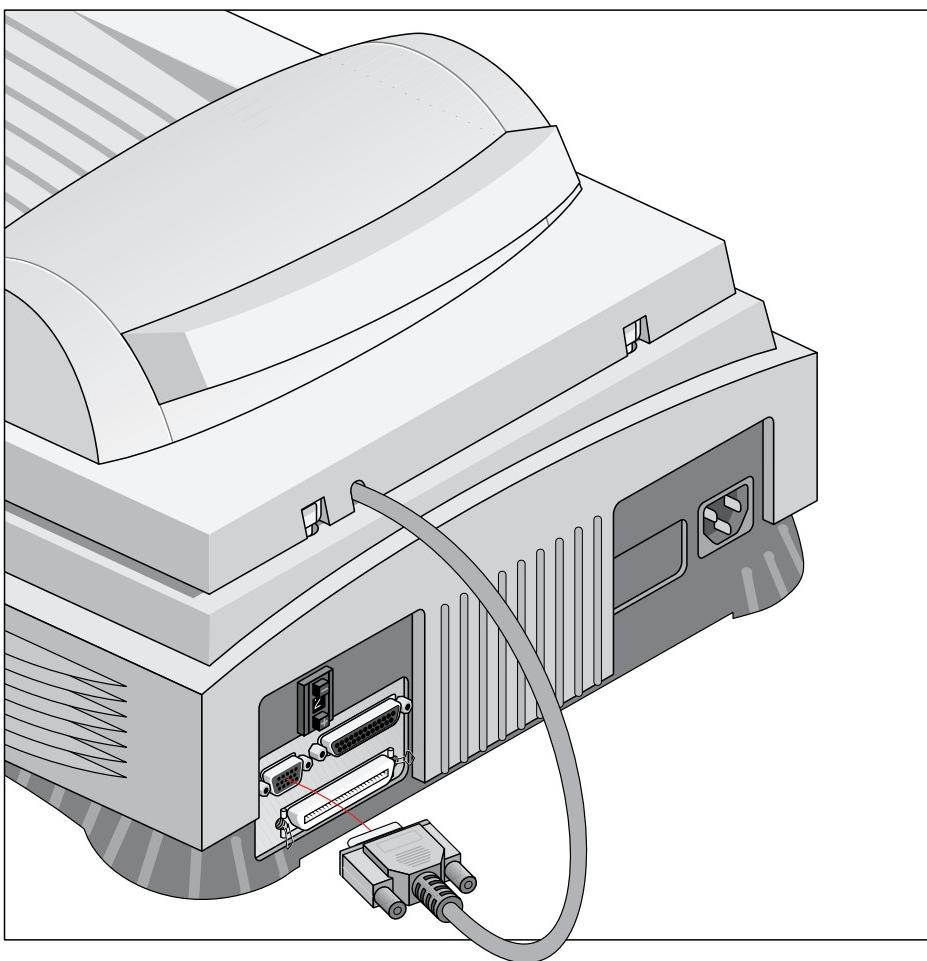
Connecting the document feeder option

You install the document feeder option as follows:

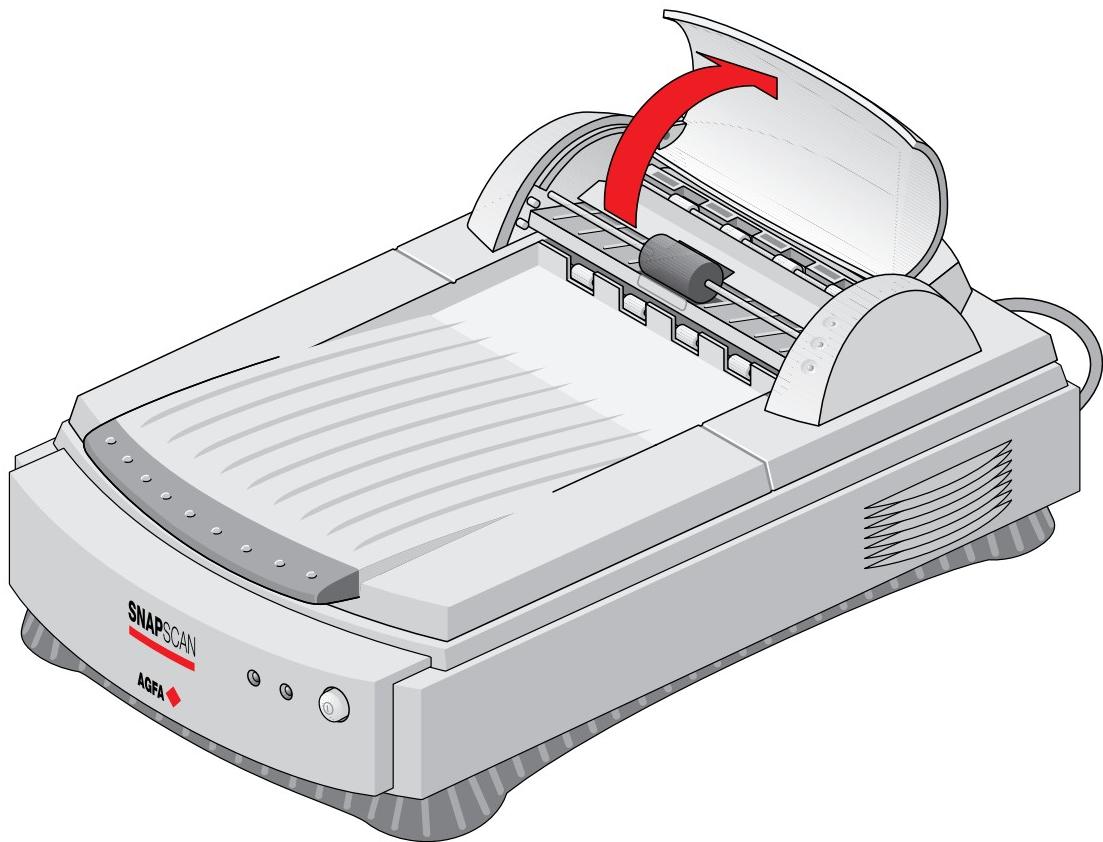
1. Check if your scanner is properly unlocked.
2. Turn off your scanner.
3. Turn off your computer.
4. If the transparency option is installed, disconnect it from your scanner, for it uses the same connector.
5. Lift off the scanner's document cover.
6. Place the ADF on top of the scanner. Insert the guide pins into the holes originally used by the scanner's document cover.



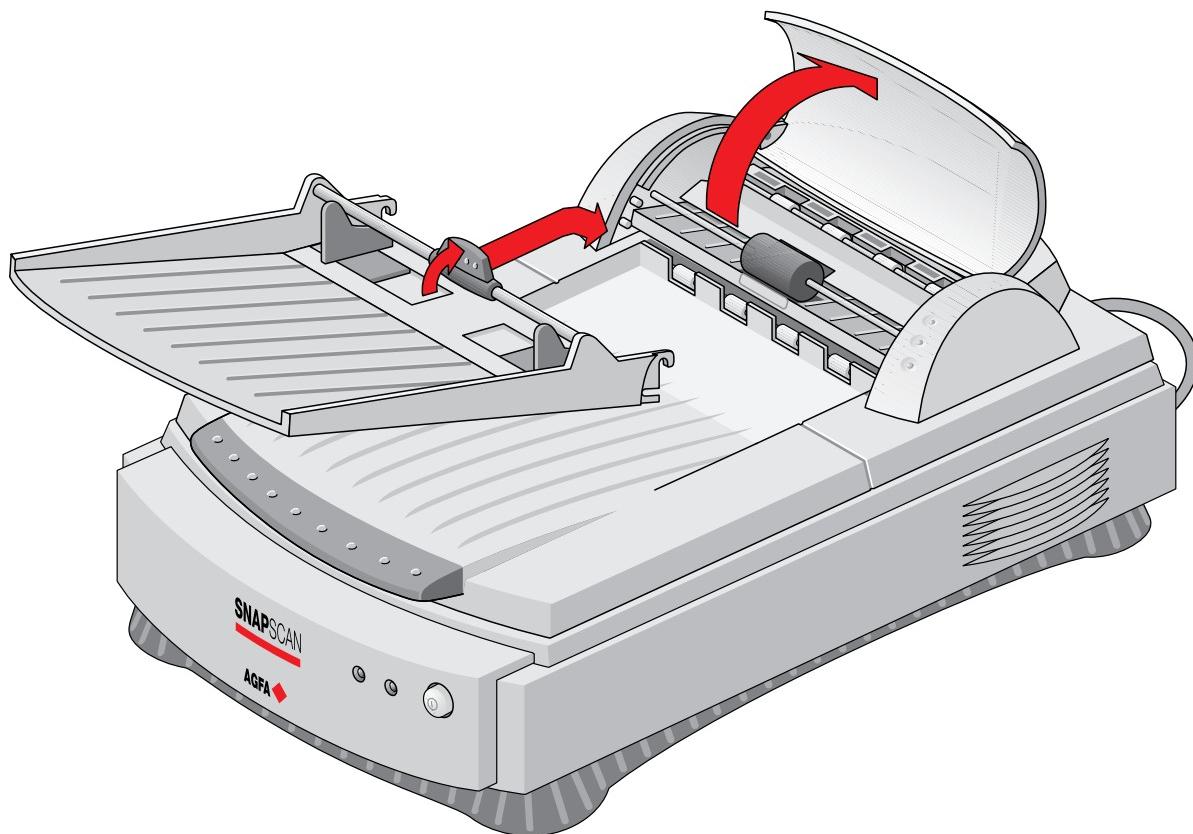
7. Connect the male 15-pin connector of the document feeder option to the female 15-pin connector at the rear of the scanner. Secure the connector by tightening its retaining screws.



8. Open the cover of the transportation module.



9. Move the rotating arm of the paper tray up.



10. Slide the paper tray into the transportation module.

11. Close the cover of the transportation module.



12. Turn your scanner on.
13. Turn your computer on.

Software like OmniPage Limited Edition makes it possible to convert the scanned sheets of text into most of the commercially used text file formats.

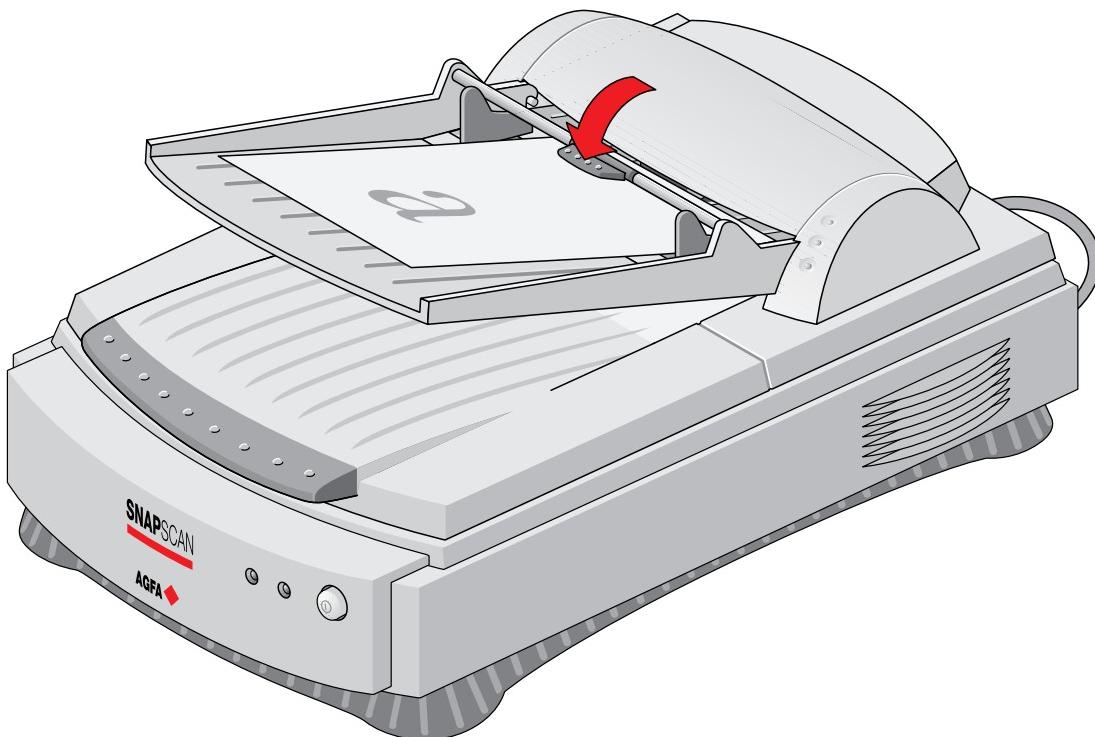
Operating the document feeder option

When the ADF is installed and the scanner is powered on, start up the scanner application software.

Paper loading

To load documents:

1. Push the rotating arm of the paper tray up.
2. Place the documents in the input tray with the side to be scanned facing up.
3. Push the rotating arm of the paper tray down.



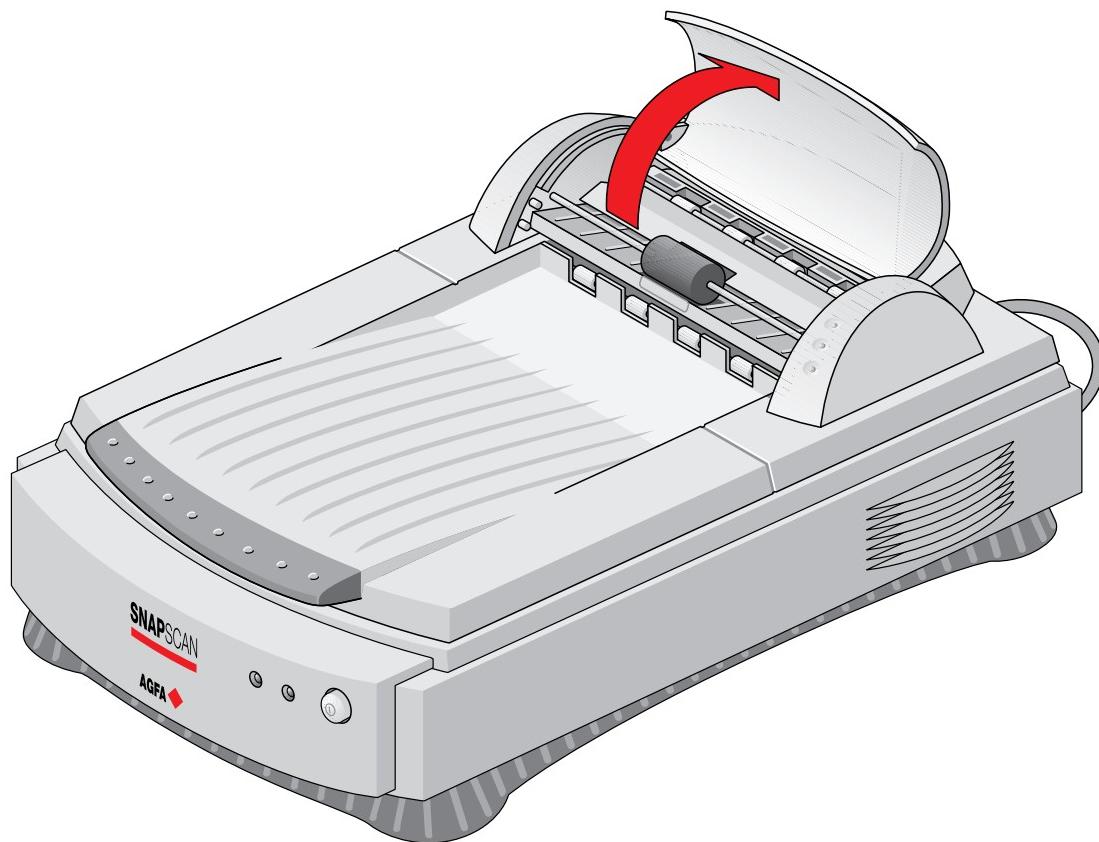
4. Make sure the pages are aligned in the center with the two guide arms.



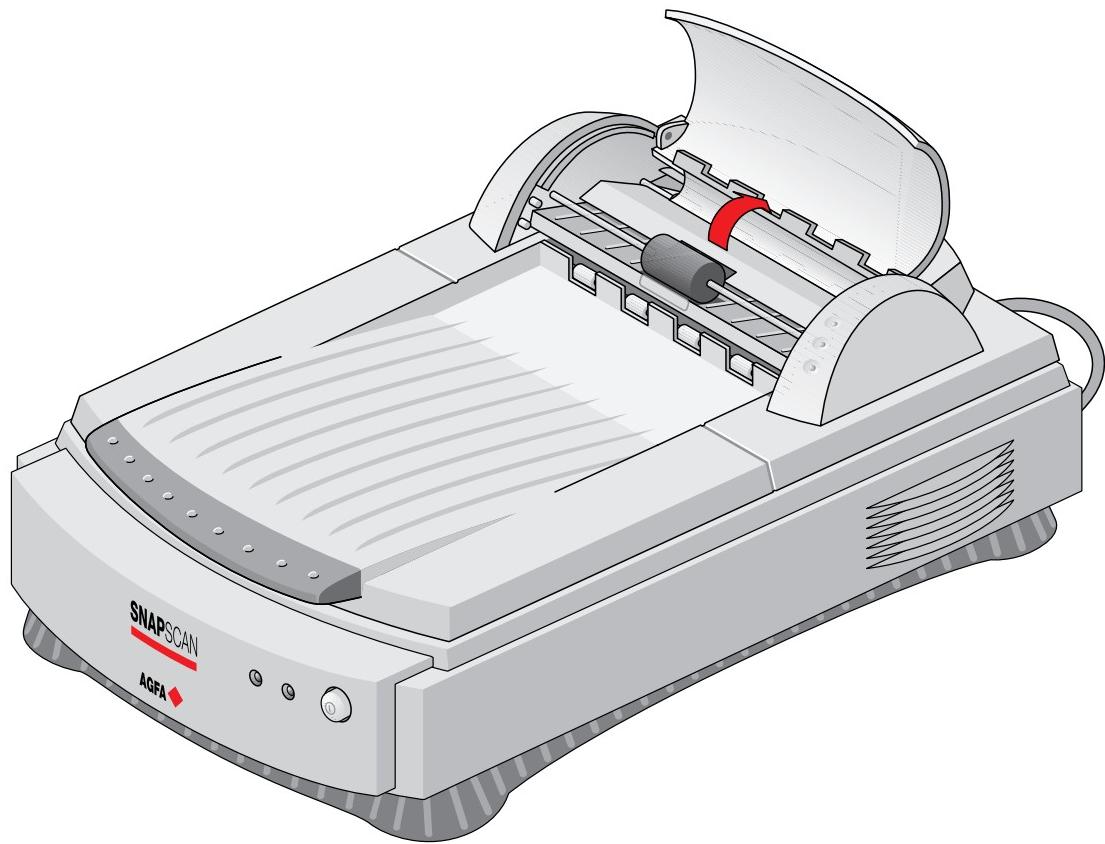
Correcting paper jams

To remove jammed pages:

1. Lift the cover of the transportation module.



2. Push the paper-turn-around plate up.



3. Grasp both free corners of the jammed sheet and pull it out slowly.



4. Close the cover of the transportation module.

Maintaining the document feeder option

Cleaning the guide flap

The guide flap on the underside of the ADF keeps documents at the correct scanning position and guides them into the output tray after scanning. To prevent printing ink and other contaminants from accumulating on the flap and interfering with image quality, wipe it periodically with an ink-free cloth or cotton swab moistened with industrial alcohol.

Roller cleaning

Prolonged use of the ADF may result in accumulation of ink and other contaminants on the feeder's input roller, reducing the roller's efficiency. Check for dirt on the roller if the ADF starts to have trouble pulling paper through properly. The input roller should be cleaned periodically using a lint-free cloth or swab moistened with ethylene chloride.

- ❖ Note: Do not attempt to turn the roller while cleaning it; this may damage the ADF's drive mechanism.

Appendix C — Troubleshooting

This appendix explains some common problems you may come across when starting up or using your SnapScan.

The computer screen displays scanner calibration error.

- The calibration slit is covered by your transparent original. You did not use the template or you used it incorrectly. This can only happen when you are in transparency mode.

The scanner or Transparency option lamp flickers, dims, or fails to come on.

- The scanning lamp is failing or has failed and needs to be changed. Contact your dealer.

The scanner driver software returns a “Scanner not ready” or similar message.

- Verify the power connection to the scanner
- Check that the power switch is turned on.
- Check the Installation procedure, to see if you followed the instructions. Pay special attention to the setting of the SCSI ID number.
- Verify the terminators and the cables. If there is a problem with a cable or with the SCSI board of the scanner, contact your dealer.
- Disconnect all SCSI devices and connect them one by one, beginning with the scanner, to identify the device that causes the problem.

The scanner does not start up.

- Contact your dealer.

The scanner makes an unusual noise and nothing moves under the glass plate when you switch it on.

- The scanner was not properly unlocked. Immediately switch the scanner off and unlock properly, or contact your dealer.

The info indicator light (the left green one) on the scanner's operating panel starts blinking at a higher frequency after the power-up sequence (= 15 seconds).

A malfunction has been detected by the scanner.

- Check if you have unlocked the scanner.
- Switch the scanner off and on.
- If this doesn't help, please contact your dealer.

The power indicator (the right green one) and the info indicator fail to light up.

- Verify the power connection to the scanner.
 - Check if the power switch is turned on.
 - If you are sure that the scanner is powered on, contact your dealer.
-

The workstation does not start up. If your workstation is an Apple Macintosh a little floppy disk with a question mark appears on your screen.

Your workstation cannot find its hard disk due to a conflict with the SCSI ID numbers of the devices you have attached.

- Disconnect all SCSI devices (except the start-up disk) and connect them one by one, beginning with the scanner, to identify the device that causes the problem (switch all devices off before breaking or making connections).
-

The scanner software cannot find the scanner

After opening the Scan dialog box, a message appears telling that no scanner is connected, although the scanner is connected.

- Check the Installation procedure, to see if you followed the instructions. Pay special attention to the setting of the SCSI ID number.
 - Maybe you did not wait long enough for all SCSI devices to start up, before you switched your workstation on. Therefore, try restarting your workstation. If this doesn't help,
 - Disconnect all SCSI devices and connect them one by one, beginning with the scanner, to identify the device that causes the problem.
-

The scanner reports errors during scanning (Apple Macintosh)

- Check the presence of the SCSI terminator. If this can not be the problem, please contact your dealer.

Appendix D — Technical information

This appendix provides some technical information about your SnapScan, about the transparency option and about the document feeder option.

[SnapScan specifications](#)

[Transparency option specifications](#)

[Document feeder option specifications](#)

Technical specifications are subject to change without notice.

SnapScan specifications

Scanner type:	Desktop, flatbed, one pass
Maximum resolution:	
- optical:	300 dpi horizontal x 600 dpi vertical
- through interpolation:	2400 dpi horizontal x 2400 dpi vertical
Sample depth:	8 bits for gray, 24 bits for colour
Scanning speed:	
- line-art:	=< 3 ms per line
- halftone:	=< 3 ms per line
- gray:	=< 3 ms per line
- colour:	=< 10 ms per line
Maximum scanning area:	216 x 297 mm (8.5 " x 11,7 ")
Lamp:	fluorescent
Warm up time:	=< 15 s
Power supply:	
- line voltage:	100 to 240 V
- frequency:	47 to 63 Hz
Dimensions:	
- length:	530 mm (20,9 ")
- width:	375 mm (14,8 ")
- height:	140 mm (5.5 ")
- weight:	ca. 7,5 kg (16.5 lb)

Options:	Transparency option
	Document feeder option
Interface:	SCSI-2 interface, 25-pin and 50-pin SCSI-connector
Transmission speed:	2 Mb/s
Environment: - operating temperature: - relative humidity: - surrounding space:	10 °C to 40 °C (50 F to 104 F) 20% to 85% 10 cm (4 ") on each side, 15 cm (6 ") at the rear side

Transparency option specifications

System:	Moving light source
Maximum resolution:	300 dpi horizontal x 600 dpi vertical
Scanning area:	Maximum 203 mm x 254 mm (8 " x 10 ")
Lamp:	fluorescent
Power supply:	from the scanner
Interface:	15-pin cable with connector to scanner
Dimensions: - length: - width: - height: - weight:	516 mm (20,3 ") 330 mm (13 ") 58 mm (2,3 ") 4.7 kg (10.4 lb)
Environment: - operating temperature: - relative humidity: - surrounding space:	10 °C to 40 °C (50 F to 104 F) 20% to 85% 10 cm (4 ") on each side, 15 cm (6 ") at the rear side

Document feeder option specifications

Capacity:	60 sheets of copy bond paper (unfolded)
Paper size:	- minimum: 140 mm x 140 mm (5.5 " x 5.5 ") - maximum: A4 (8,5 " x 11,7 ")
Accuracy:	Paper skew: 1 degree
Connector:	15-pin cable with connector to scanner
Dimensions:	- length: 470 mm (18.5 ") - width: 330 mm (13 ") - height: 155 mm (6,1 ") - weight: ca. 8 kg (17.6 lb)
Power supply:	from the scanner
Operating conditions:	- temperature: 10 °C to 40 °C (50 F to 104 F) - relative humidity 20 % to 80 %

Appendix E — SnapScan regulation compliance

[Safety regulations](#)

[Electromagnetic interference](#)

Safety regulations

SnapScan and its options are designed to comply with:

UL 1950-D3

CSA C22.2 No. 950 - M89 D3

VDE 805

IEC 950

GS approved

EN 60950

UL Safety Statement

Instructions for power supply cord selection:

For modules set at 115V:

Use a UL listed, Type SVT or SJT cord, three conductor, rated 10 A 125 V, not to exceed 15ft in length.

Caution: For the reason of safety, besides the personal maintenance mentioned in this operation manual, don't try to remove any mechanical parts or any electronic devices. If you need service, our dealer and service offices are available to help you.

FTZ: Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt dass der Image Scanner in Übereinstimmung mit den Bestimmungen der vfg 243/1991 funk-entstört ist.

Der Deutschen Bundespost wurde das inverkehrbringen dieses Gerätes angezeigt und Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

TÜV: Wichtige Sicherheitshinweise

1. Bitte Lesen Sie sich diese Hinweise sorgfältig durch.
2. Um eine Beschädigung des Gerätes zu vermeiden sollten Sie nur Zuberhörteile verwenden, die vom Hersteller zugelassen sind.
3. Das Gerät ist vor Feuchtigkeit zu schützen.

4. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Verletzungen hervorrufen. Verwenden Sie nur sichere Standorte und beachten Sie die Aufstellhinweise des Herstellers.
5. Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
6. Die Netzanschlußsteckdose muß aus Gründen der elektrischen Sicherheit einen Schutzleiterkontakt haben.
7. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. elektrischen Schlag auslösen.
8. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem Servicepersonal geöffnet werden.
9. Die Steckdose sollte nahe dem Gerät und leicht zugänglich sein.

Electromagnetic interference

SnapScan is designed to comply with:

VDE 0871, class B

VDE 0875, level N

FCC 20718, part 15, subpart B, class B

Federal Communications Commission Radio Frequency Interference Statement.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Notice:

(1) The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

(2) Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

Canadian department of Communications

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques (de la classe B) prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.